

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

5. LEASE DESIGNATION AND SERIAL NO.
NOO-C-14-20-5119

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
NAVAJO

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
LONE MOUNTAIN CANYON

9. WELL NO.
#1-33

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 1, T42S, R24E

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

16. NO. OF ACRES IN LEASE
640

17. NO. OF ACRES ASSIGNED TO THIS WELL
80

18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
1200'

19. PROPOSED DEPTH
5515'

20. ROTARY OR CABLE TOOLS
Rotary

22. APPROX. DATE WORK WILL START
June 30, 1983

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
DRILL DEEPEN PLUG BACK

b. TYPE OF WELL
OIL WELL GAS WELL OTHER
SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
SUPERIOR OIL COMPANY

3. ADDRESS OF OPERATOR
P. O. DRAWER G CORTEZ, COLORADO 81321

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface: 1623' FSL, 1959' FEL, HWSE Sec. 1
At proposed prod. zone: Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
Approximately 13 miles southeast of Montezuma Creek, Utah

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
323'

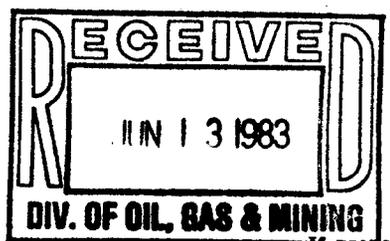
18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
1200'

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
4645.8' GR

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
10"	13-3/8"	54.5#	100'	Cement to surface
12-1/4"	9-5/8"	47#	1345'	Cement to surface
8-5/8"	5-1/2"	17#	5515'	317 sx cement or sufficient to cover zones of interest.

We propose to drill a well to 5515' to test the Desert Creek formation. If productive, we will run casing and complete. If dry, we will plug and abandon as per State of Utah, BLM and BIA requirements.



IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM - If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED: J. S. Andres, Petroleum Engineer, DATE: _____

PERMIT NO. _____ APPROVAL DATE: _____
APPROVED BY: _____ TITLE: _____

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 6-14-83
BY: [Signature]

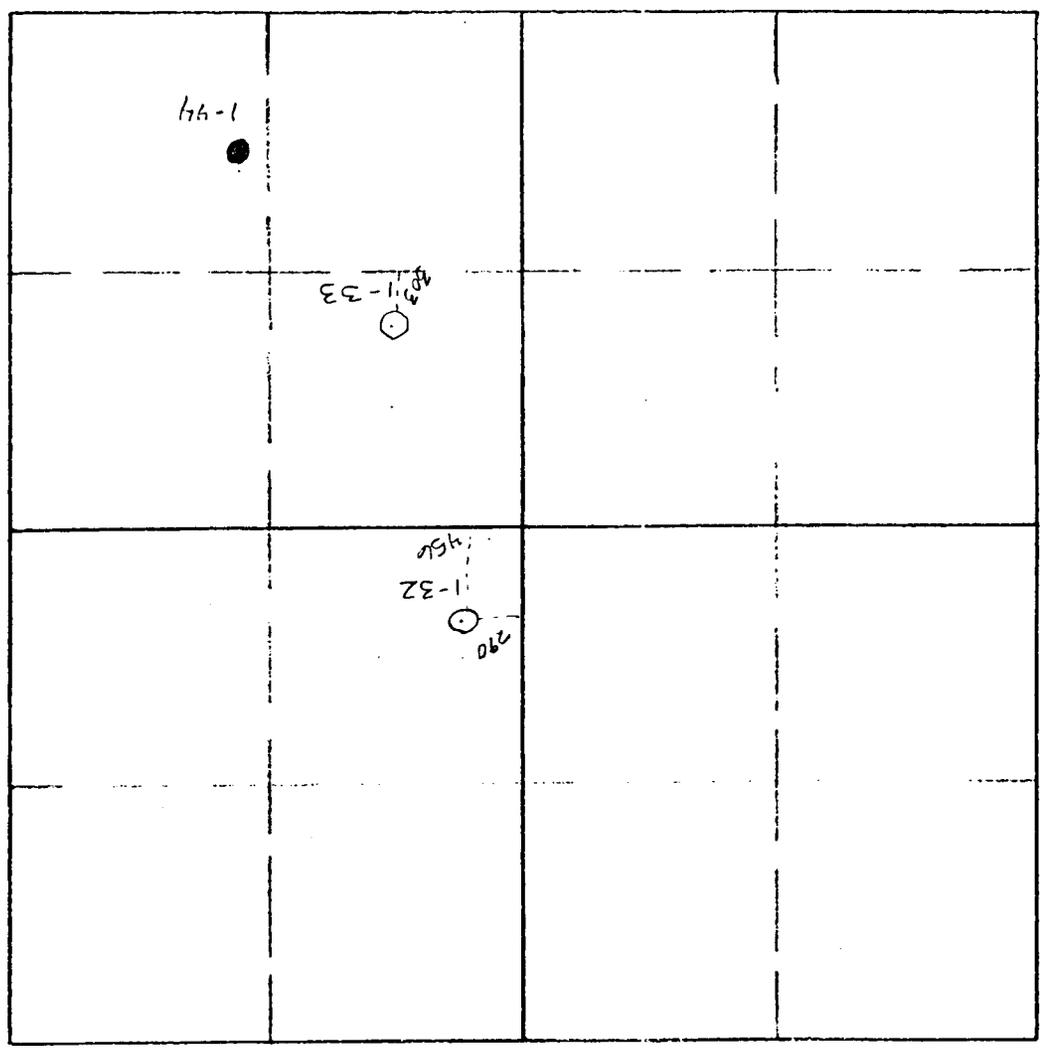
Orig. + 5 - BLM, State, BIA
Lorraine Thomas (Compliance)
L. Novacek, D. Rosprim, Drilling
Reg (Woodlands) Files H, D, C

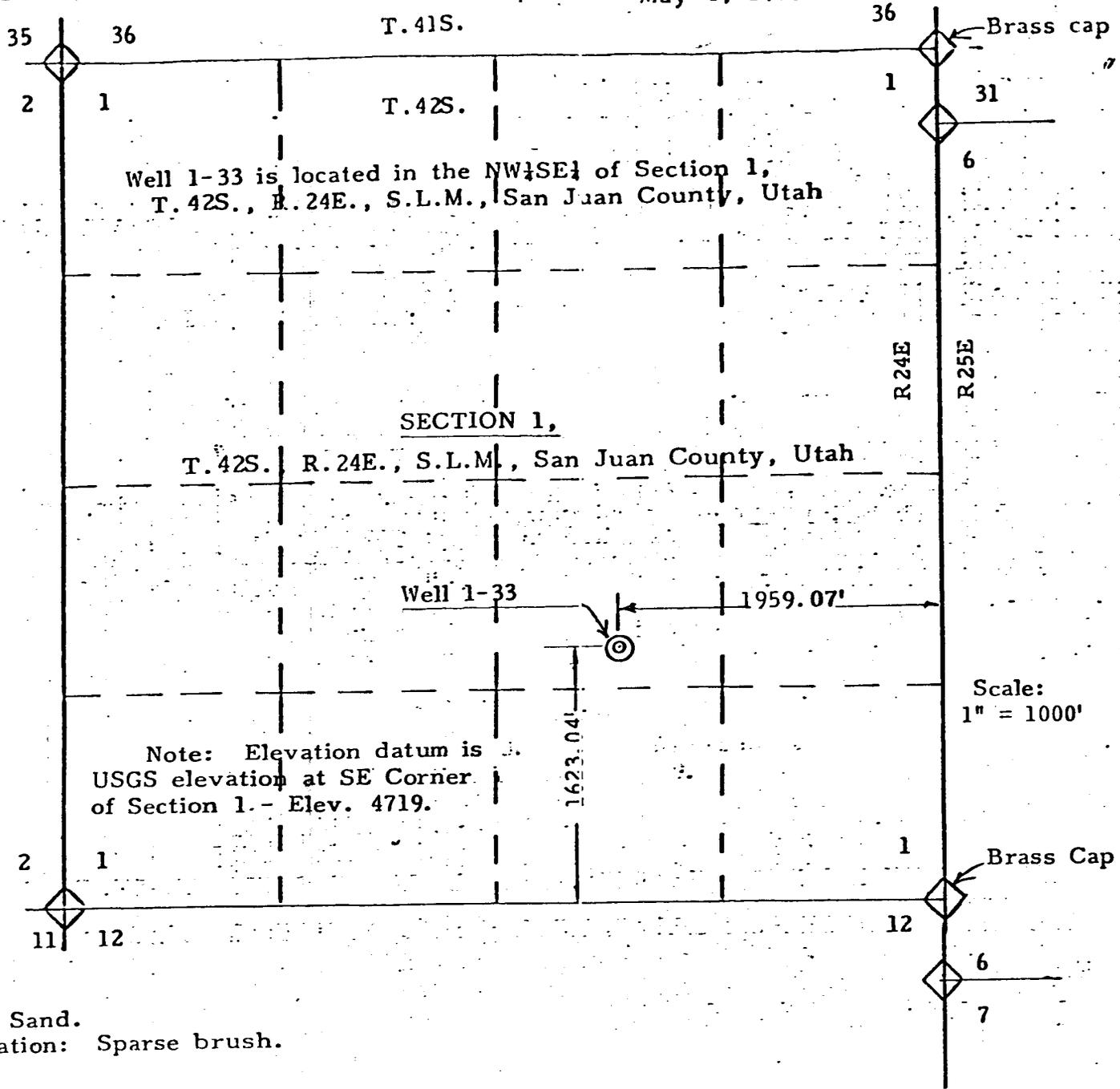
*See Instructions On Reverse Side

6-2-82
No other wells in location

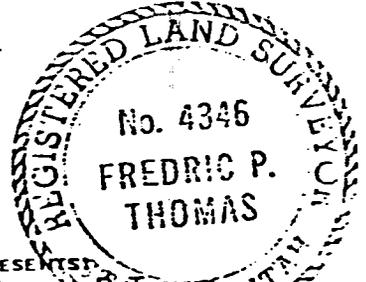
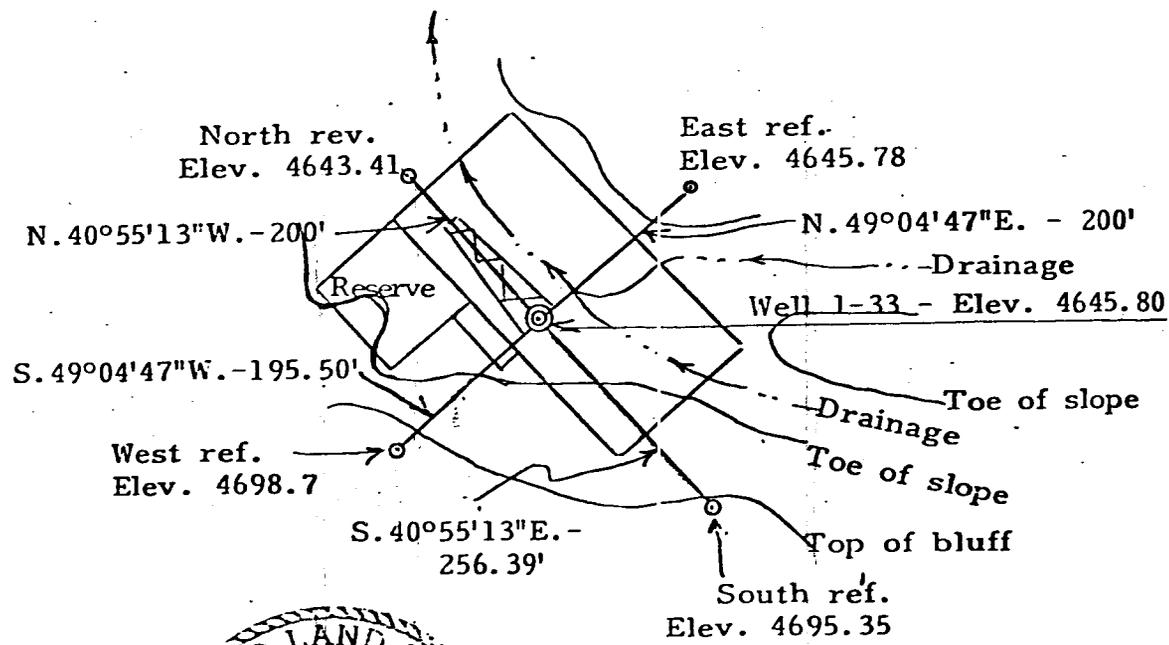
SECTION 1
TOWNSHIP 42E
RANGE 09E
COUNTY SAN JUAN

SCALE 1:1000





Soil: Sand.
Vegetation: Sparse brush.



Scale: 1" = 200'

KNOW ALL MEN BY THESE PRESENTS THAT I, FREDRIC P. THOMAS, do hereby certify that I prepared this plat from an actual and accurate survey of the land and that the same is true and correct to the best of my knowledge and belief.

Fredric P. Thomas
FREDRIC P. THOMAS

Reg. L.S. and P.E. Bearing by Solar observation
Cele. Reg. No. 6728

THOMAS Engineering Inc.

215 N. Linden
Cortez, Colorado
365-4496

Utah reg. no. 4346

PLAT #6



STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WATER RIGHTS

DEE C. HANSEN
STATE ENGINEER

EARL M. STAKER
DEPUTY

200 EMPIRE BUILDING
231 EAST 400 SOUTH
SALT LAKE CITY, UTAH 84111
(801) 533-6071

DIRECTING ENGINEERS
HAROLD D. DONALDSON
DONALD C. NORSETH
STANLEY GREEN
ROBERT L. MORGAN

August 5, 1980

Crowley Ranch, Inc.
East Route
Monticello, Utah 84535
Attn: James Crowley

Dear Mr. Crowley:

Re: A-54448 (09-1130)

Recently you received approval from the State Engineer on the above mentioned numbered Application to Appropriate. Part of the Application called for the construction of a reservoir 8 feet high and impounding 20 acre-feet of water.

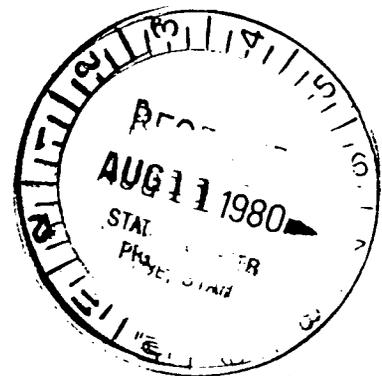
Your Application will serve as notice to the State Engineer that you plan to construct a reservoir thus satisfying Section 73-5-12 of the Utah Code Annotated 1953. No plans or specifications will be required but it is requested that we be notified when construction is to start and when it is complete.

Sincerely,

Robert L. Morgan
Dam Safety Engineer

RIM:sn

cc: Price Office



FEEES FOR APPLICATIONS TO APPROPRIATE WATER IN UTAH

RECEIVED
APR 03 1980

Flow rate — c.f.s.	Cost	
0.0 to 0.1	\$ 15.00	
over 0.1 to 0.5	30.00	
over 0.5 to 1.0	45.00	
over 1.0 to 15.0	45.00	plus \$7.50 for each cfs above the first cubic
over 15.0	150.00	foot per second.

Storage — acre-feet		
0 to 20	22.50	
over 20 to 500	45.00	
over 500 to 7500	45.00	plus \$7.50 for each 500 a.f. above the first
over 7500	150.00	500 acre feet.

(This section is not to be filled in by applicant)

STATE ENGINEER'S ENDORSEMENTS

1. 4-1-80 Application received by mail in State Engineer's office by sp
2. Priority of Application brought down to, on account of
3. 4/4/80 Application fee, \$ 15.00, received by WA Rec. No. 06664
4. apr. 15, 80 Application microfilmed by Roll No. 889-3
5. 4/4/80 Indexed by SW Platted by (234:25) 25 a.c. RW 6/10/80
6. 4-1-80 Application examined by sp
7. Application returned, or corrected by office
8. Corrected Application resubmitted by mail to State Engineer's office.
over counter
9. 4-1-80 Application approved for advertisement by sp
10. APR 30 1980 Notice to water users prepared by sp
11. MAY 8 1980 Publication began; was completed MAY 22 1980
12. 5/9/80 Notice published in San Juan Record
13. Proof slips checked by sp
14. 6/27/80 Publisher paid by M.E.V. No. 1031495
15. Hearing held by
16. Field examination by
17. 7-16-80 Application designated for approval sp SAFETY
rejection
18. 7/31/80 Application copied or photostated by dph proofread by
19. 7/31/80 Application approved
rejected
20. **Conditions:**
This Application is approved, subject to prior rights, as follows:
 - a. Actual construction work shall be diligently prosecuted to completion.
 - b. Proof of Appropriation shall be submitted to the State Engineer's office by 2/28/83
 - c. Election
21. Time for making Proof of Appropriation extended to
22. Proof of Appropriation submitted.
23. Certificate of Appropriation, No., issued


Dee C. Hansen, State Engineer

Application No. 5-1448

OPERATOR SUPERIOR OIL CO DATE 6-14-83

WELL NAME LOVE MOUNTAIN CANYON 1-33

SEC NWSE 1 T 42S R 24E COUNTY SAN JUAN

43-031-30908
API NUMBER

INDIAN
TYPE OF LEASE

POSTING CHECK OFF:

INDEX

MAP

HL

NID

PI

PROCESSING COMMENTS:

CHIEF PETROLEUM ENGINEER REVIEW:

6/14/83

Love Mountain Field extension

APPROVAL LETTER:

SPACING:

A-3

UNIT

c-3-a

CAUSE NO. & DATE

c-3-b

c-3-c

SPECIAL LANGUAGE:

*a copy of the Utah Division of Water
(201-533-6011) approval for use or purchase
of drilling water must be submitted to this
office prior to spudding, otherwise this
approval is void.*

RECONCILE WELL NAME AND LOCATION ON API) AGAINST SAME DATA ON PLAT MAP.

AUTHENTICATE LEASE AND OPERATOR INFORMATION

VERIFY ADEQUATE AND PROPER BONDING

AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.

APPLY SPACING CONSIDERATION

ORDER NO

UNIT NO

c-3-b

c-3-c

CHECK DISTANCE TO NEAREST WELL.

CHECK OUTSTANDING OR OVERDUE REPORTS FOR OPERATOR'S OTHER WELLS.

IF POTASH DESIGNATED AREA, SPECIAL LANGUAGE ON APPROVAL LETTER

IF IN OIL SHALE DESIGNATED AREA, SPECIAL APPROVAL LANGUAGE.

June 14, 1983

Superior Oil Company
P. O. Drawer G
Cortez, Colorado 81321

RE: Well No. Lone Mountain Canyon 1-33
NWSE Sec. 1, T.42S, R.24E
1623 FSL, 1959 FEL
San Juan County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to oil well on said unorthodox location is hereby granted in accordance with Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure. A copy of the Utah Division of Water Rights (801-533-6071) approval for use or purchase of drilling water must be submitted to this office prior to spudding, otherwise this approval is void.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

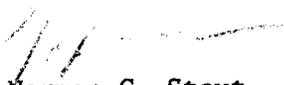
RONALD J. FIRTH - Chief Petroleum Engineer
Office: 533-5771
Home: 571-6068

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-037-30908.

Sincerely,


Norman C. Stout
Administrative Assistant

NCS/as
cc: Minerals Management
Bureau of Indian Affairs
Enclosure

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER
 SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 SUPERIOR OIL COMPANY

3. ADDRESS OF OPERATOR
 P. O. DRAWER G CORTEZ, COLORADO

4. LOCATION OF WELL (Report location clearly and in accordance with any requirements)
 At surface: 1623' FSL, 1959' FEL, NWSE Sec. 1
 At proposed prod. zone: Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 Approximately 13 miles southeast of Montezuma Creek, Utah

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 323'
 16. NO. OF ACRES IN LEASE 640

18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1200'
 19. PROPOSED DEPTH 5515'

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 4645.8' GR
 DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS" PROPOSED CASING AND CEMENTING PROGRAM

23. This action is subject to administrative appeal pursuant to 30 CFR 290.

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH
10"	13-3/8"	54.5#	100'
12-1/4"	9-5/8"	47#	1345'
8-5/8"	5-1/2"	17#	5515'

22. APPROX. DATE WORK WILL START*
 June 30, 1983
 QUANTITY OF CEMENT
 Cement to surface
 Cement to surface
 317 sx cement or sufficient to cover zones of interest.

We propose to drill a well to 5515' to test the Desert Creek formation. If productive, we will run casing and complete. If dry, we will plug and abandon as per State of Utah, BLM and BIA requirements.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED J. S. Andres TITLE Petroleum Engineer DATE _____
 (This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

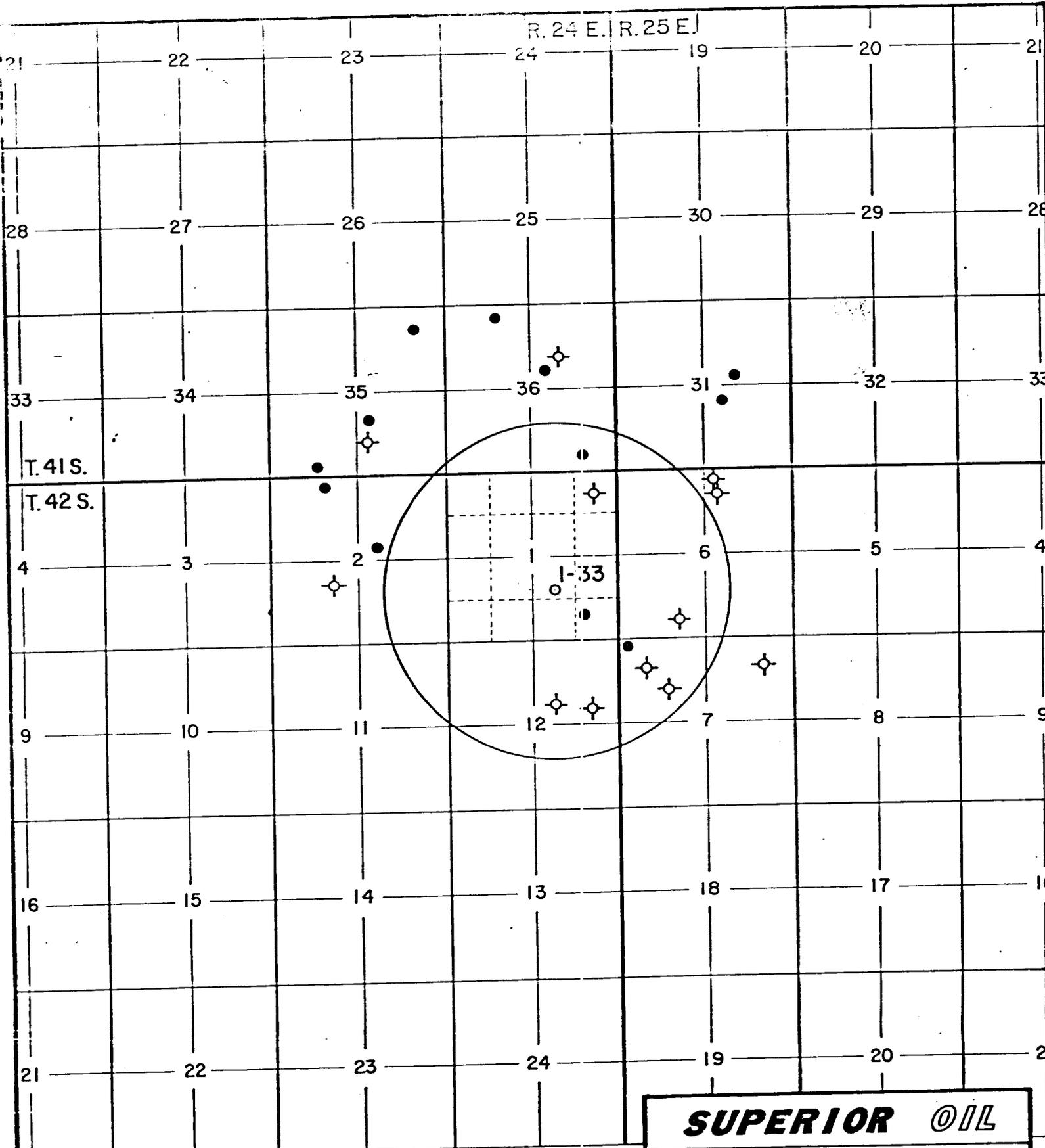
APPROVED BY _____ TITLE _____
 CONDITIONS OF APPROVAL, IF ANY:

Utah O & G Com.
 *See Instructions On Reverse Side

5. LEASE DESIGNATION AND SERIAL NO.
 NOO-C-14-20-5119
 6. IF INDIAN, ALLOTTEE OR TRIBE NAME
 NAVAJO
 7. UNIT AGREEMENT NAME
 8. FARM OR LEASE NAME
 LONE MOUNTAIN CANYON
 9. WELL NO.
 #1-33
 10. FIELD AND POOL, OR WILDCAT
 Wildcat
 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Sec. 1, T4S, R24E
 12. COUNTY OR PARISH
 San Juan
 13. STATE
 Utah

RECEIVED
 MAY 27 1983
 U. S. GEOLOGICAL SURVEY
 FARMINGTON, N. M.

APPROVED
 AS AMENDED
 JUN 24 1983
 JAMES F. SIMS
 DISTRICT ENGINEER



- Proposed Well
- Producing Well
- ☼ Gas Well
- ⊕ Water Disposal Well
- ⊖ Temporarily Abandoned
- ⊙ Permanently Abandoned

SUPERIOR OIL

EXISTING WELLS
SURROUNDING
PROPOSED WELL



 1 mile

May 5-4-03

SUPPLEMENTAL TO FORM 9-331-C

WELL: Lone Mountain Canyon #1-33

ELEVATION: 4645.8' Ungraded ground level

SURFACE FORMATION: Dakota

ESTIMATED FORMATION TOPS:	<u>FORMATION</u>	<u>DEPTH</u>
	Chinle	1280'
	Dechelly	2325'
	Hermosa	4297'
	Ismay	5127'
	Lower Ismay	5247'
	Gothic Shale	5282'
	Desert Creek	5300'
	Chimney Rock	5465'
	T.D.	5515'

WATER BEARING FORMATION: Water is expected to be encountered intermittently from 50' to 1280'.

HYDROCARBON BEARING FORMATION: Oil and gas could be encountered intermittently from 5127' to 5465'.

MUD PROGRAM: Surface to 2800'- Fresh water.

2800' to T.D. - Lignosulfate or similar mud system. Water loss controlled to 15 cc or less and weighted with Barite as necessary.

CASING PROGRAM:

	Depth	Hole Size	O.D.	Weight	Grade	Type
Conductor	0-100'	18"	13-3/8"	54.5#	H-40	ST&C
Surface	0-1345'	12-1/4"	9-5/8"	47#	P-110	LT&C
Production	0-5515'	8-5/8"	5-1/2"	17#	N-80	ST&C

All casing will be new.



1777 SOUTH HARRISON STREET • PENTHOUSE ONE
TELEPHONE (303) 759-3303 • DENVER, COLORADO 80210

May 26, 1983

State of Utah
Natural Resources & Energy
Oil & Gas & Mining Division
4241 State Office Bldg.
Salt Lake City, Utah 84111

Attn: Mr. Norman C. Stout

Re: Lone Mountain Canyon #1-32
Lone Mountain Canyon #1-33
Section 1-42S-24E
San Juan County, Utah
White Mesa Prospect: 44-2-3

Dear Mr. Stout:

The Superior Oil Company proposes to drill the captioned wells at exception locations. Duncan has no objections to these exception locations.

We appreciate your cooperation in granting this request.

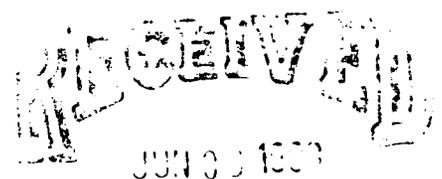
Very Truly Yours,

RAYMOND T. DUNCAN


Bruce E. Johnston
Land Manager

BEJ/ka

cc: Dick Rosprim
Superior Oil Company
1860 Lincoln Street
Lincoln Tower Bldg.
Suite 800
Denver, Colorado 80295



DIVISION OF
OIL, GAS & MINING



DIVISION OF CONSERVATION ARCHAEOLOGY

San Juan County
Museum Association

May 25, 1983

Mr. Duane Likes
Superior Oil Company
P.O. Drawer G
Cortez, CO 81321

Dear Mr. Likes:

Enclosed is an archaeological report for well locations LMC 1-32 and LMC 1-33 located in and north of Lone Mountain Canyon, San Juan County, Utah. Three isolated loci were found.

We recommend clearance for both locations.

The Bureau of Indian Affairs and the Navajo Nation will review this report and make the final decision regarding archaeological clearance for your project. The Bureau of Indian Affairs in Window Rock should notify the Real Property Management offices of the BIA in Shiprock of its decision.

Also enclosed is an invoice for our services. We have enjoyed working with you and hope that we can be of service again. If you have any questions about either the report or the invoice please call us. We will be happy to help you.

Sincerely,

Roger A. Moore (JZ)
Roger A. Moore
Supervisory Archaeologist

cc: Dr. Barry Holt, BIA, Window Rock (5)

Project No. 61-83-C

Federal Antiquities
Permit No. 82-AZ/UT/NM-089

Navajo Nation No. 1981-14

An Archaeological Survey of
Two Well Locations and Access
Routes Near Aneth, Utah

for

Superior Oil Co.

Lone Mountain Canyon Well 1-32
Lone Mountain Canyon Well 1-33

by

Roger A. Moore
Supervisory Archaeologist

Submitted by

Margaret A. Powers
Principal Investigator

DIVISION OF CONSERVATION ARCHAEOLOGY

Contributions to Anthropology Series, No. 694
San Juan County Archaeological Research Center and Library

May 5, 1983

ABSTRACT

On April 27, 1983, the Division of Conservation Archaeology of the San Juan County Museum Association completed an archaeological survey of two well locations and access routes for Superior Oil Co. The survey area is located on Lone Mountain Canyon, southwest of Aneth in San Juan County, Utah and is under the jurisdiction of the Bureau of Indian Affairs and the Navajo Nation.

Three isolated loci were recorded. Archaeological clearance is recommended.

INTRODUCTION

On April 27, 1983, the Division of Conservation Archaeology (DCA) of the San Juan County Museum Association conducted an archaeological survey for Superior Oil Co. of Cortez, Colorado. Clyde Benally of Superior Oil Co. requested the survey on April 20, 1983. Margaret A. Powers administered the project for DCA; Clyde Benally and Duane Likes administered the project for Superior Oil Co.

In recognition of the limited, nonrenewable nature of archaeological remains, federal and state governments have enacted legislation that is designed to conserve and protect these resources. The principal federal legislation includes the Antiquities Act of 1906 (PL 52-209), the Historic Preservation Act of 1966 (PL 89-665), the National Environmental Policy Act of 1969 (PL 91-852), the 1971 Executive Order No. 11593, the Archaeological and Historical Conservation Act of 1974 (PL 93-291), and the Archaeological Resources Protection Act of 1979 (PL 96-95).

In addition, the states of Arizona, New Mexico, Utah, and Colorado have enacted laws to ensure compliance with federal legislation and to protect archaeological resources within their jurisdiction. Work undertaken in the course of this project is governed by the stipulations of Federal Antiquities Permit No. 82-AZ/UT/NM-089 and Navajo Nation Permit No. 1981-14 and is for purposes of compliance with these statutes.

Roger Moore, DCA archaeologist, surveyed the project area for cultural remains. Dr. Barry Hold, Bureau of Indian Affairs Navajo Area Archaeologist, and Dr. Anthony Klesert, Navajo Cultural Resource Management Program Coordinator, were notified of the survey schedule prior to beginning fieldwork. Mike Loyd and Duane Likes of Superior Oil Co. accompanied the archaeologist during the fieldwork.

METHODS

The area was surveyed by walking a single zig zag transect along the access route right-of-ways, and parallel transects 15 meters apart on the well locations. A buffer zone 15 feet wide was included on both sides of the access route right-of-ways, and 50 feet wide around the well locations. The archaeologist recorded all cultural remains. Those whose information potential exceeded what could be extracted during the survey phase were assigned site status. Other cultural remains were documented as isolated loci (IL). Pertinent environmental data were also recorded.

In addition to field inspection, the archaeologist conducted a search of the records at the Division of Conservation Archaeology to determine if any sites had been previously recorded in the project area. Site and project records requested by the State of Utah were completed.

LONE MOUNTAIN CANYON WELL 1-32

Legal Description: T42S, R24E, Section 1, 2184' F/NL, 2350' F/EL (well pad), S.L.C., San Juan County, Utah

UTM Coordinates: Zone 12, 4114650N, 657020E (center of pad)

Map Source: U.S.G.S. 15' Aneth, Utah (1962)

Land Jurisdiction: Bureau of Indian Affairs and Navajo Nation

Project Area: 325' x 300' (well pad)

Surveyed Area: 425' x 400' (well pad with buffer)
3.90 acres

Description: The proposed well pad is in the bottom of Lone Mountain Canyon on the west bank of the creek in the dune covered flood plain (Figure 1). Access will be by following the creek bed about 150 meters north to an existing dirt road.

Vegetative cover is about 15 percent and consists of snakeweed, narrow leaf yucca, rabbitbrush, dock, and Mormon tea.

Cultural Resources: Two isolated loci were found. IL#1 (UTM: Zone 12, 4114660N, 657030E) is near the center of the northeast quarter of the drill location and consists of a white chert microflake with 100 percent dorsal cortex. IL #2 (UTM: Zone 12, 4114660N, 650990E) is in the west side of the northwest quarter of the drill location and consists of a green chert bifacially flaked thick blade-like flake about 6cm long, 4cm wide, and 1.5cm thick. The area uphill on the west side of the pad was checked an extra 100 feet to determine if there might be a site from which these IL's originated. No site was found. IL #1 is in recently active and accumulating dunes, while IL #2 is in older partly stabilized dunes.

Recommendations: The recorded data on the isolated loci exhausts their information potential. Archaeological clearance is, therefore, recommended.

LONE MOUNTAIN CANYON WELL 1-33

Legal Description: T42S, R24E, Section 1, 1623' F/SL, 1959' F/EL (well pad);
 T42S, R24E, Section 1, NW $\frac{1}{4}$ SE $\frac{1}{4}$ (access route);
 T42S, R24E, Section 1, W $\frac{1}{2}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ (access route);
 S.L.C., San Juan County, Utah

UTM Coordinates: Zone 12, 4114225N, 657125E (center of pad)
 Zone 12, 4114300N, 657475E (east end of access)

Map Source: U.S.G.S. 15' Aneth, Utah-Colorado (1962)

Land Jurisdiction: Bureau of Indian Affairs and Navajo Nation

Project Area: 325' x 300' (well pad)
 1500' x 20' (access route)
 Surveyed Area: 425' x 400' (well pad with buffer)
 1500' x 50' (access route with buffer)
 5.62 Acres

Description: The proposed drill location is on the canyon flood plain. The southwest two-thirds of the pad will cut back into a high dune covered ridge (Figure 1). From the drill location the access route goes northwest down a wash (which will be rerouted to the north) about 150 feet. The route then ascends a low bedrock terrace to the north-northeast and climbs the side of a high bedrock bench. On the broad bench the route follows a narrow finger to the main bench and continues east to an existing dirt road.

Vegetative cover ranges from 10-20 percent. Vegetation includes snakeweed, rabbitbrush, Mormon tea, dock, barrel cactus, prickly pear cactus, cheat grass, and other identified grasses.

Cultural Resources: One isolated locus, IL #3 (UTM: Zone 12, 4114350N, 657200E), was found on the access route near the point where the route drops down from the bench finger. The IL consists of a core reduction tertiary flake and a cobble core, both of light gray chert.

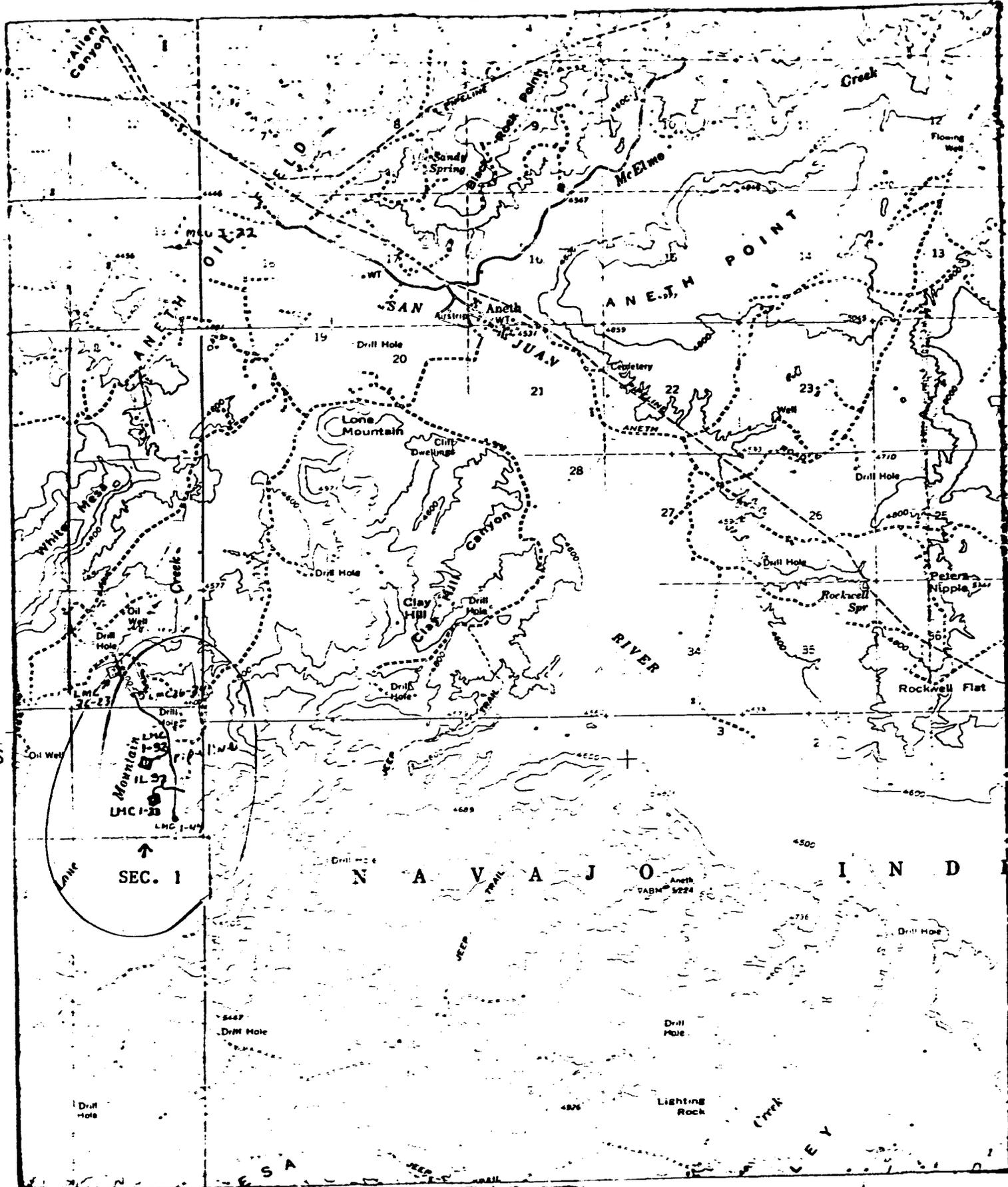
Recommendations: The recorded data on the isolated locus exhausts its information potential. Archaeological clearance is recommended.

NOTE ON GEOPHYSICAL CHARACTER OF SURVEY AREA

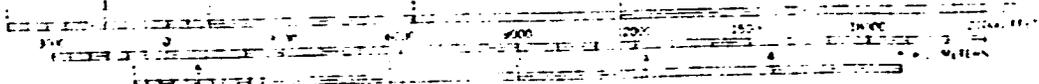
The Lone Mountain Canyon floor and several of the lowest mesa benches have dune fields on them. The dunes near the main canyon drainages are active, with seasonal to yearly shifts in mass, resulting in a low percentage of vegetative cover. The other dunes are farther from the main drainage and are apparently more stable and have more vegetative cover. While surveying the area I checked the steep slopes at the edge of several dune fields for evidence as to whether some of the isolated

loci found in the dunes are derived from buried sites. This was easier to do for the more active fields. The more active fields have shifted in elevation up to 2 meters in places and, therefore, portions of the sites, if they exist, are likely to have been uncovered. The older dunes, however, may have a potential for harboring buried sites. The areas that would have the greatest potential for buried sites are the upper or lower mesa benches, rather than the valley floor.

The recommendations in this report are based on my observations, but the topography warrants the attention of a Quaternary geologist in order to place these inferences on a more secure foundation.



SCALE 1:62500



CONTOUR INTERVAL 40 FEET
 DOTTED LINES REPRESENT 20 FOOT CONTOURS
 ELEVATIONS IN FEET MEAN SEA LEVEL

ANETH, UTAH - CO
 N3700 - W10900 - 15

1962

AMS 4158 II - SERIES VTY

SUPERIOR OIL

May 23, 1983

State of Utah
Natural Resources and Energy
Oil, Gas and Mining Division
4241 State Office Building
Salt Lake City, Utah 84111
Attention: Norman C. Stout

RE: Lone Mountain Canyon #1-32 (UT-2032)
Lone Mountain Canyon #1-33 (UT-2032)
Section 1, T42S-R24E
San Juan County, Utah

Dear Mr. Stout:

The Superior Oil Company proposes to drill the following wells at the indicated locations:

Lone Mountain Canyon #1-32 -- 2350' FEL - 2184' FNL
SW $\frac{1}{4}$ NE $\frac{1}{4}$ Section 1, T42S-R24E

Lone Mountain Canyon #1-33 -- 1625' FSL - 1959' FEL
NW $\frac{1}{4}$ SE $\frac{1}{4}$ Section 1, T42S-R24E

Both of these locations are closer than 500' to the quarter-quarter section line and therefore will not meet the location guidelines set by the State of Utah.

An exception location is being requested so these wells can be drilled on seismic shot points. Deviation from the known data on the seismic line increases our risk in drilling these wells. The ownership of all oil and gas leases within a radius of 660' of both locations is the same with Superior owning a 50% working interest and Raymond T. Duncan a 50% working interest. Under separate letter, Raymond T. Duncan will give their consent to the above locations.

The Application for Permit to Drill for these wells will be sent to you from W. H. Edwards of our Cortez office. We will appreciate your cooperation in granting the exceptions. Please do not hesitate to contact W. H. Edwards (303-565-3733) or me at (303-863-2700), if you have any questions regarding this matter.

Respectfully,

THE SUPERIOR OIL COMPANY


R. A. Rosprim
Landman
RAR:dm

CC: J. M. Bauman, D. W. Shewmake, W. H. Edwards, Bruce Johnston

The Superior Oil Company

Denver Division

1860 Lincoln St., Suite 800,
Lincoln Tower Building, Denver, CO 80295
(303) 863-2600, Twx: 910 931 2539

DIVISION OF CONSERVATION AND ARCHAEOLOGY

San Juan County
Museum Association

May 25, 1983

Mr. Duane Likes
Superior Oil Company
P.O. Drawer G
Cortez, CO 81321

Dear Mr. Likes:

Enclosed is an archaeological report for well locations LMC 1-32 and LMC 1-33 located in and north of Lone Mountain Canyon, San Juan County, Utah. Three isolated loci were found.

We recommend clearance for both locations.

The Bureau of Indian Affairs and the Navajo Nation will review this report and make the final decision regarding archaeological clearance for your project. The Bureau of Indian Affairs in Window Rock should notify the Real Property Management offices of the BIA in Shiprock of its decision.

Also enclosed is an invoice for our services. We have enjoyed working with you and hope that we can be of service again. If you have any questions about either the report or the invoice please call us. We will be happy to help you.

Sincerely,

Roger A. Moore (JF)
Roger A. Moore
Supervisory Archaeologist

cc: Dr. Barry Holt, BIA, Window Rock (5)

Project No. 61-83-C

Federal Antiquities
Permit No. 82-AZ/UT/NM-089

Navajo Nation No. 1981-14

An Archaeological Survey of
Two Well Locations and Access
Routes Near Aneth, Utah

for

Superior Oil Co.

Lone Mountain Canyon Well 1-32
Lone Mountain Canyon Well 1-33

by

Roger A. Moore
Supervisory Archaeologist

Submitted by

Margaret A. Powers
Principal Investigator

DIVISION OF CONSERVATION ARCHAEOLOGY

Contributions to Anthropology Series, No. 694
San Juan County Archaeological Research Center and Library

May 5, 1983

ABSTRACT

On April 27, 1983, the Division of Conservation Archaeology of the San Juan County Museum Association completed an archaeological survey of two well locations and access routes for Superior Oil Co. The survey area is located on Lone Mountain Canyon, southwest of Aneth in San Juan County, Utah and is under the jurisdiction of the Bureau of Indian Affairs and the Navajo Nation.

Three isolated loci were recorded. Archaeological clearance is recommended.

INTRODUCTION

On April 27, 1983, the Division of Conservation Archaeology (DCA) of the San Juan County Museum Association conducted an archaeological survey for Superior Oil Co. of Cortez, Colorado. Clyde Benally of Superior Oil Co. requested the survey on April 20, 1983. Margaret A. Powers administered the project for DCA; Clyde Benally and Duane Likes administered the project for Superior Oil Co.

In recognition of the limited, nonrenewable nature of archaeological remains, federal and state governments have enacted legislation that is designed to conserve and protect these resources. The principal federal legislation includes the Antiquities Act of 1906 (PL 52-209), the Historic Preservation Act of 1966 (PL 89-665), the National Environmental Policy Act of 1969 (PL 91-852), the 1971 Executive Order No. 11593, the Archaeological and Historical Conservation Act of 1974 (PL 93-291), and the Archaeological Resources Protection Act of 1979 (PL 96-95).

In addition, the states of Arizona, New Mexico, Utah, and Colorado have enacted laws to ensure compliance with federal legislation and to protect archaeological resources within their jurisdiction. Work undertaken in the course of this project is governed by the stipulations of Federal Antiquities Permit No. 82-AZ/UT/NM-089 and Navajo Nation Permit No. 1981-14 and is for purposes of compliance with these statutes.

Roger Moore, DCA archaeologist, surveyed the project area for cultural remains. Dr. Barry Hold, Bureau of Indian Affairs Navajo Area Archaeologist, and Dr. Anthony Klesert, Navajo Cultural Resource Management Program Coordinator, were notified of the survey schedule prior to beginning fieldwork. Mike Loyd and Duane Likes of Superior Oil Co. accompanied the archaeologist during the fieldwork.

METHODS

The area was surveyed by walking a single zig zag transect along the access route right-of-ways, and parallel transects 15 meters apart on the well locations. A buffer zone 15 feet wide was included on both sides of the access route right-of-ways, and 50 feet wide around the well locations. The archaeologist recorded all cultural remains. Those whose information potential exceeded what could be extracted during the survey phase were assigned site status. Other cultural remains were documented as isolated loci (IL). Pertinent environmental data were also recorded.

In addition to field inspection, the archaeologist conducted a search of the records at the Division of Conservation Archaeology to determine if any sites had been previously recorded in the project area. Site and project records requested by the State of Utah were completed.

LONE MOUNTAIN CANYON WELL 1-32

Legal Description: T42S, R24E, Section 1, 2184' F/NL, 2350' F/EL (well pad), S.L.C., San Juan County, Utah

UTM Coordinates: Zone 12, 4114650N, 657020E (center of pad)

Map Source: U.S.G.S. 15' Aneth, Utah (1962)

Land Jurisdiction: Bureau of Indian Affairs and Navajo Nation

Project Area: 325' x 300' (well pad)
Surveyed Area: 425' x 400' (well pad with buffer)
3.90 acres

Description: The proposed well pad is in the bottom of Lone Mountain Canyon on the west bank of the creek in the dune covered flood plain (Figure 1). Access will be by following the creek bed about 150 meters north to an existing dirt road.

Vegetative cover is about 15 percent and consists of snakeweed, narrow leaf yucca, rabbitbrush, dock, and Mormon tea.

Cultural Resources: Two isolated loci were found. IL#1 (UTM: Zone 12, 4114660N, 657030E) is near the center of the northeast quarter of the drill location and consists of a white chert microflake with 100 percent dorsal cortex. IL #2 (UTM: Zone 12, 4114660N, 650990E) is in the west side of the northwest quarter of the drill location and consists of a green chert bifacially flaked thick blade-like flake about 6cm long, 4cm wide, and 1.5cm thick. The area uphill on the west side of the pad was checked an extra 100 feet to determine if there might be a site from which these IL's originated. No site was found. IL #1 is in recently active and accumulating dunes, while IL #2 is in older partly stabilized dunes.

Recommendations: The recorded data on the isolated loci exhausts their information potential. Archaeological clearance is, therefore, recommended.

LONE MOUNTAIN CANYON WELL 1-33

Legal Description: T42S, R24E, Section 1, 1623' F/SL, 1959' F/EL (well pad)
T42S, R24E, Section 1, NW $\frac{1}{4}$ SE $\frac{1}{4}$ (access route);
T42S, R24E, Section 1, W $\frac{1}{2}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ (access route);
S.L.C., San Juan County, Utah

UTM Coordinates: Zone 12, 4114225N, 657125E (center of pad)
Zone 12, 4114300N, 657475E (east end of access)

Map Source: U.S.G.S. 15' Aneth, Utah-Colorado (1962)

Land Jurisdiction: Bureau of Indian Affairs and Navajo Nation

Project Area: 325' x 300' (well pad)
1500' x 20' (access route)
Surveyed Area: 425' x 400' (well pad with buffer)
1500' x 50' (access route with buffer)
5.62 Acres

Description: The proposed drill location is on the canyon flood plain. The southwest two-thirds of the pad will cut back into a high dune covered ridge (Figure 1). From the drill location the access route goes northwest down a wash (which will be rerouted to the north) about 150 feet. The route then ascends a low bedrock terrace to the north-northeast and climbs the side of a high bedrock bench. On the broad bench the route follows a narrow finger to the main bench and continues east to an existing dirt road.

Vegetative cover ranges from 10-20 percent. Vegetation includes snakeweed, rabbitbrush, Mormon tea, dock, barrel cactus, prickly pear cactus, cheat grass, and other identified grasses.

Cultural Resources: One isolated locus, IL #3 (UTM: Zone 12, 4114350N, 657200E), was found on the access route near the point where the route drops down from the bench finger. The IL consists of a core reduction tertiary flake and a cobble core, both of light gray chert.

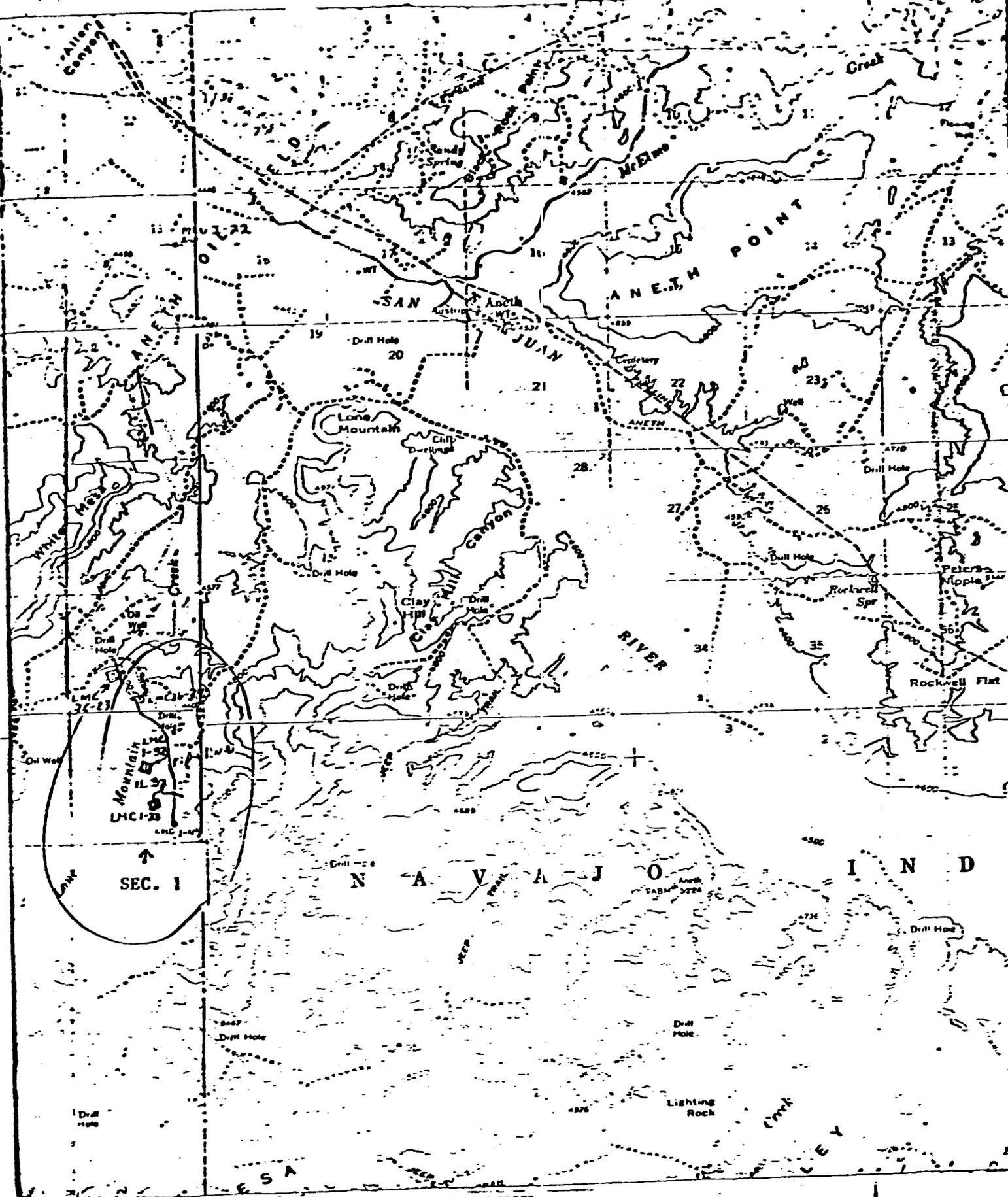
Recommendations: The recorded data on the isolated locus exhausts its information potential. Archaeological clearance is recommended.

NOTE ON GEOPHYSICAL CHARACTER OF SURVEY AREA

The Lone Mountain Canyon floor and several of the lowest mesa benches have dune fields on them. The dunes near the main canyon drainages are active, with seasonal to yearly shifts in mass, resulting in a low percentage of vegetative cover. The other dunes are farther from the main drainage and are apparently more stable and have more vegetative cover. While surveying the area I checked the steep slopes at the edge of several dune fields for evidence as to whether some of the isolated

oci found in the dunes are derived from buried sites. This was easier to do for the more active fields. The more active fields have shifted in elevation up to 2 meters in places and, therefore, portions of the sites, if they exist, are likely to have been uncovered. The older dunes, however, may have a potential for harboring buried sites. The areas that would have the greatest potential for buried sites are the upper or lower mesa benches, rather than the valley floor.

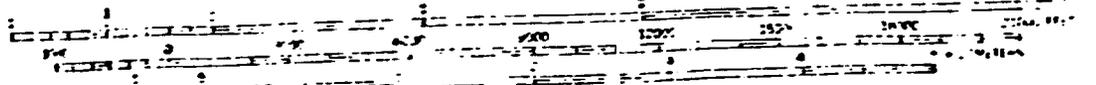
The recommendations in this report are based on my observations, but the topography warrants the attention of a Quaternary geologist in order to place these inferences on a more secure foundation.



125

SEC. 1

SCALE 1:62500



CONTOUR INTERVAL 40 FEET
 CONTOUR LINES REPRESENT 20-FEET CONTOURS
 DATUM IS MEAN SEA LEVEL

ANETH, UTAH
 N3700-W1050

1962

AMS 4158 II - SECT

THE NAVAJO NATION
WINDOW ROCK, NAVAJO NATION (ARIZONA) 86515



PETERSON ZAH

CHAIRMAN, NAVAJO TRIBAL COUNCIL

Utah Land Development
801-651-3208

EDWARD T. BEGAY

VICE CHAIRMAN, NAVAJO TRIBAL COUNCIL

P.O. Box 410
Montezuma Creek, Utah 84534

May 19, 1983

Office of the Secretary
Bureau of Land Management Oil & Gas
P.O. Drawer 600
Farmington, New Mexico 87401

Re: Lone Mountain Canyon
Well No. 1-32
Well No. 1-33

Dear Gentlemen:

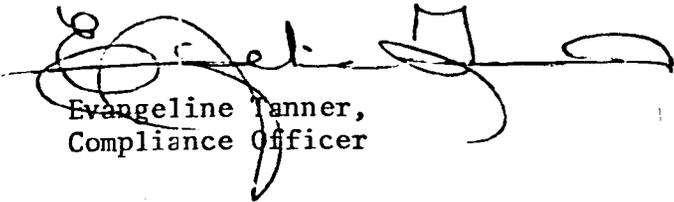
Superior Oil Company has been given approval on May 16, 1983 by the Lone Mountain Canyon permittees and concurred by the Utah Land Development Office to drill the following wells when the archeological clearance is obtained:

Lone Mountain Canyon No. 1-32
SW/NE Section 1, T42S, R24E
San Juan County, Utah

Lone Mountain Canyon No. 1-33
NW/SE Section 1, T42S, R24E
San Juan County, Utah

Thank you.

Sincerely,



Evangeline Tanner,
Compliance Officer

cc: File
Superior Oil
BIA/Land Operations
BIA/Real Property

SUPERIOR OIL

May 18, 1983

Mr. James F. Sims
District Supervisor
U. S. Department of Interior
Bureau of Land Management
P. O. Box 600
Farmington, New Mexico 87499

Re: Surface Use Development Plan
Proposed Well
Lone Mountain Canyon #1-33
1623' FSL, 1959' FEL
Section 1, T42S, R24E, SLM
San Juan County, Utah

Dear Sir:

We submit the following application and plats for permission to drill the referenced well. The attached "Surface Management Stipulations" (BIA) are made a part of this APD.

1. The existing roads are shown on the attached drill site and facilities plats. Directions to the location from Montezuma Creek, Utah are as follows:
from the San Juan River Bridge at Montezuma Creek go south on blacktop 0.4 miles to the Red Mesa Highway. Go southeasterly 1.2 miles on the Red Mesa Highway to a gravel road on the left. Proceed southeasterly on gravel road parallel to the river for 6.3 miles to a wash. Cross the wash, go south parallel to the wash 3.4 miles. Go East 0.1 mile on a road to be built to the location. The existing roads are being maintained as access to an existing producing well. (refer to Plat #1).
2. Planned access road will be 20' wide & approximately 0.25 miles to be built from an existing improved road east to the location. Low water crossings will be used. Ditching and waterbars will be constructed as directed by the Bureau of Indian Affairs to control erosion. Maximum cut will be 10' and grade will not exceed 7%. (refer to Plat #2).

SUPERIOR OIL

3. Location of existing wells within one mile:

- a. Water wells - none.
- b. Abandoned wells - five.
- c. Temporarily abandoned wells - none.
- d. Disposal wells - none.
- e. Drilling wells - none.
- f. Producing wells - two.
- g. Shut in wells - none.
- h. Injection wells - none.

(refer to Plat #3).

4. Location of existing and/or proposed producing facilities: there is one set of producing facilities owned or controlled by Superior approximately 1500 ft southwest of the proposed location and another tank battery 4000 ft north of the proposed location also owned and operated by Superior. There are no other facilities owned or controlled by Superior within a one mile radius of the proposed well. If the proposed well is productive the existing facilities to the Southwest will be used and the flowline will be buried along the road right of way and existing approved pipeline right of way. An earthen dike will be maintained around the storage tanks.
5. Location and type of water supply will be from Superior's McElmo Creek Unit operations which gets its fresh water from wells near the San Juan River (SW1/4 Sec. 17, T41S, R25E). Water will be trucked to location over existing roads and access road.
6. Source of construction materials necessary to build the drilling pad and access road will be obtained from the location and road. 6" of top soil will be removed and stockpiled for use in restoration of the drill site and road. The top soil will be stabilized with a snow fence and seeded to protect it. If gravel is needed to maintain existing roads and/or access road it will be trucked from an off the reservation privately owned gravel pit 0.25 miles west of Montezuma Creek. miles west of Montezuma Creek.
7. Methods for handling waste disposal is to collect it in an earthen pit 6' to 8' deep with steep sides and fenced with small mesh wire and located near the mud pit. The reserved mud pit will be located on the west side of the location. When drilling operations are complete the mud pits will be allowed to dry and then backfilled and leveled to the contour of the original landscape. The reserve pit will be lined with Bentonite. The reserve pit will be fenced on three sides while drilling and on the fourth side as soon as the drilling rig moves out, OSHA approved chemical toilets will be provided and maintained. (refer to Plat #4 & #5).
8. Ancillary facilities. No permanent campsites or air strips will be constructed. Two small portable trailer houses for Superior's and contractors drilling Supervisory personnel will be on the location while drilling the well. (refer to Plat #4).

SUPERIOR OIL

9. Wellsite layout. The location and position of all drilling equipment is shown on the attached plat. There is also a plat attached showing the cross section diagram of the drill pad including all cuts and fills. Material from the location will be used for pad elevation. (refer to Plats #4, #5, #6 & #7).
10. Plans for restoration of the surface. Upon completion of drilling operations and in case of a dry hole the site and unused portion of the access road will be restored to the contour of the original landscape and seeded in accordance with the BIA requirements. The top soil that was stockpiled will be used in the restoration.
11. Surface land is owned by the Navajo Tribe and is used primarily for grazing. Vegetation is sparse and consists of Cheat Grass, Indian Rice Grass, Morman Tea, Yucca, Rabbitbrush and Curley Dock.

There are no Indian habitations or artifacts in the immediate vicinity of the access road, flow line or drill site. The nearest habitate is 1.5 miles north of the location.

12. Superior's representatives:

Permitting - Wm. H. Edwards
Construction - J. A. Calhoon
Drilling - J. E. Gagneaux
Production - K. R. Johnson
Mailing address - P. O. Drawer 'G', Cortez, Co. 81321
Telephone (24 hrs) - 303-565-3733.
Dirt contractor - not determined at this time.

Drilling contractor - not determined at this time.

13. I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by the SUPERIOR OIL COMPANY and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

Respectfully submitted,

SUPERIOR OIL COMPANY

May 25, 83

Date

Wm. H. Edwards

Wm. H. Edwards
Special Projects Superintendent

May 16, 1983

Mr. Norm Stout
Division of Oil, Gas & Mining
4241 State Office Building
Salt Lake City, UT 84114

Re: Proposed Lone Mountain Canyon #1-33
1959' FEL, 1623' FSL,
Sec. 1, T42S, R24E
San Juan County, Utah

Dear Mr. Stout:

The attached Application for Permit to Drill for the above referenced well is staked on an unorthodox location in accordance with Rule C-3(c) General Rules and Regulations and Practice and Procedure. An exemption is requested primarily due to topographic considerations (intermittent wash-NNE).

We would appreciate your cooperation on this matter.

Sincerely yours,



Jeanette M. Bauman

JMB/dt
Attachment

cc: W. E. Pritchard
W. E. Edwards

**Surface Management Stipulations
To Be Included in APD**

Company Superior
 Well # 1-33
 Date of Inspection 5-10-83
 Provided by Randy Cornett

1. All above ground structures and equipment will be painted with the following non-glare color.

<u> </u> Brown <u> </u>	Fed. Standard <u> </u>	595a - 30318
<u> </u> Green <u> </u>	Fed. Standard <u> </u>	595a - 34127
<u> </u> Gray <u> </u>	Fed. Standard <u> </u>	595a - 36357
<u>X</u> Sand <u> </u>	Fed. Standard <u> </u>	595a - 30277

2. Compacted areas will be plowed or ripped to a depth of 4 to 6 inches before reseeding. Seed will be drilled to a depth of .5 to .75 inch or broadcast and followed by a drag or packer. If broadcast, the recommended seed mix will be applied at 150% of the recommended rate. The following seed mix will be used.

<u>SPECIES</u>	<u>lbs./acre/PLS</u>
Crested Wheatgrass	_____
Slender Wheatgrass	_____
Smooth Brome	_____
Orchardgrass	3 #
Yellow Sweetclover	_____
Sainfoin	_____
Western Wheatgrass	1 #
Sand Dropseed	1 #
Alkali Sacaton	3 #
Indian Ricegrass	_____
Galleta	_____
Needle-N-Thread	_____
Squirrel tail	_____
Side Oats Grama	_____
Four-Wing Saltbush	_____
Shadscale	_____
Cliffrose	_____
Antelope Bitterbrush	_____
Timothy	_____
Winter-Fat	_____

(Purity X Germination = PLS)

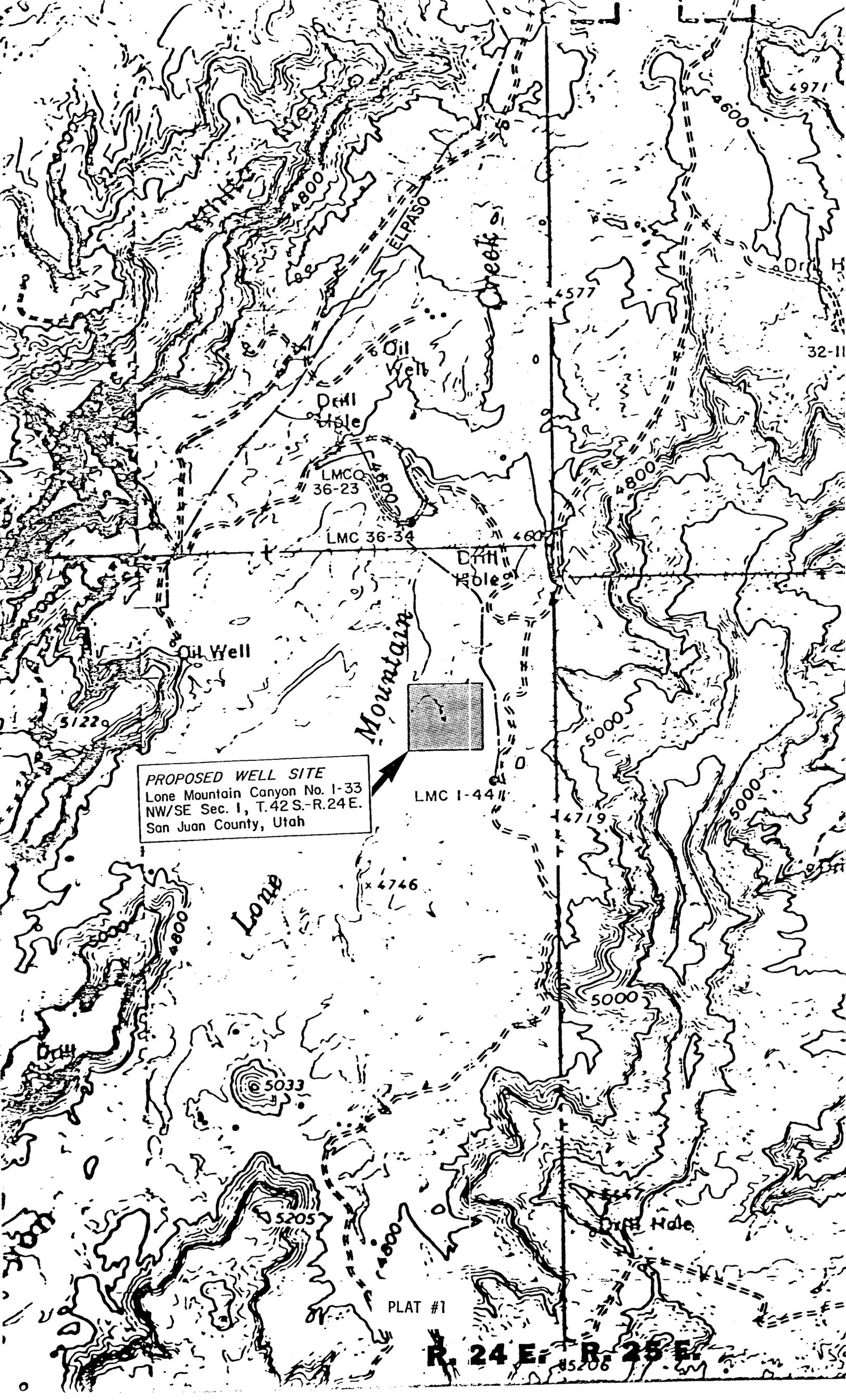
3. 6" Topsoil will be removed and stockpiled for use in revegetating the site. *(Must be stabilized w/snow fence, etc. & seeded.)*

4. Upon abandonment, the well pad will be fenced with a standard five-strand barb wire fence, or equivalent and will have no gates. The fence will be maintained for two years to allow for seeding establishment and will then be removed.

5. Access roads not needed for through traffic will be barricaded and reseeded in accordance with #2. Water bars will be constructed to the following specifications.

<u>% Slope</u>	<u>Slope Distance</u>
Less than 1%	400 feet
1% - 5%	300 feet
5% - 15%	200 feet
15% - 25%	100 feet
Greater than 25%	50 feet

6. Other
Pit will be lined w/impervious material

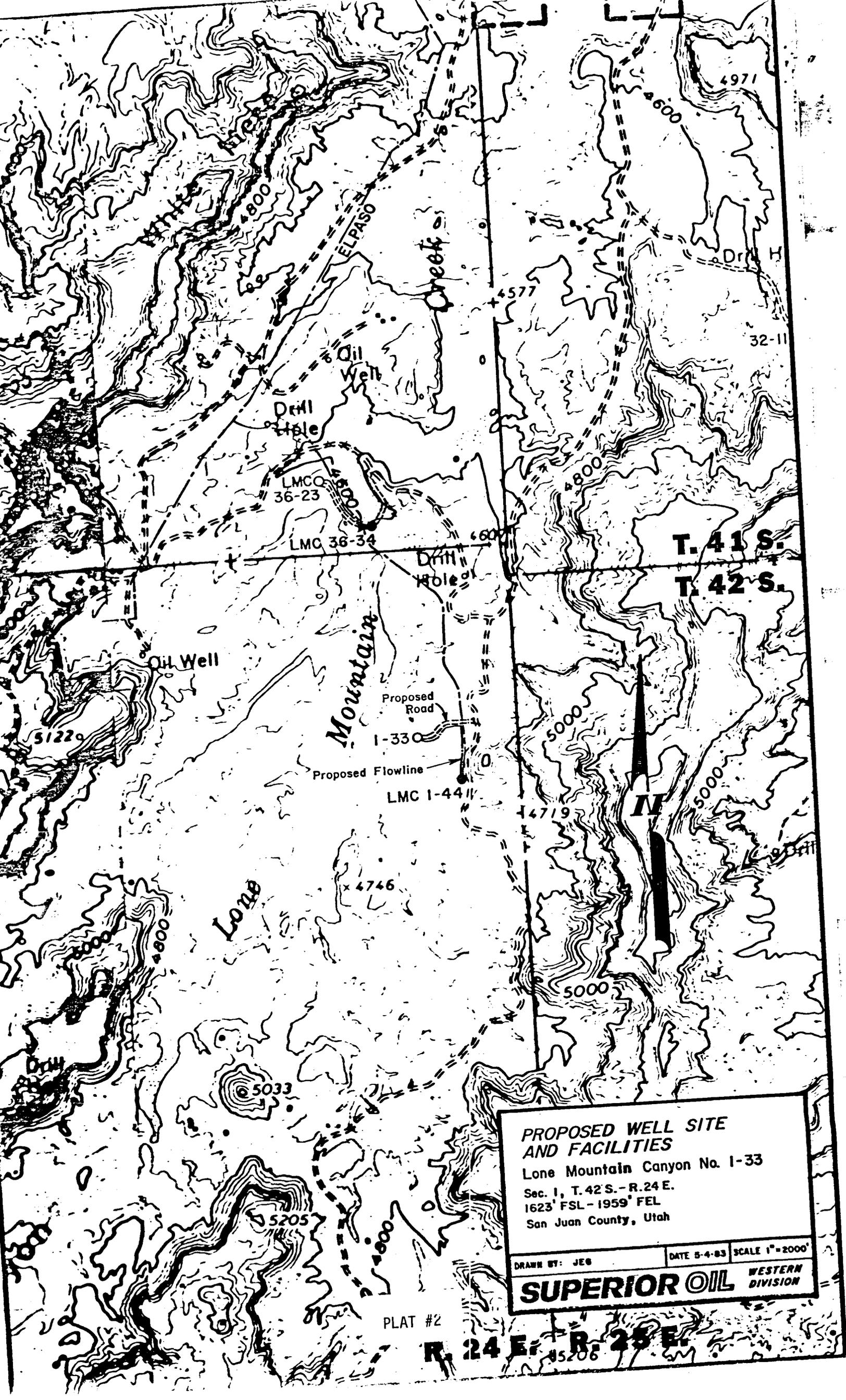


PROPOSED WELL SITE
Lone Mountain Canyon No. 1-33
NW/SE Sec. 1, T.42 S.-R.24 E.
San Juan County, Utah

LMC 1-44

PLAT #1

R. 24 E. R. 25 E.



T. 41 S.
T. 42 S.

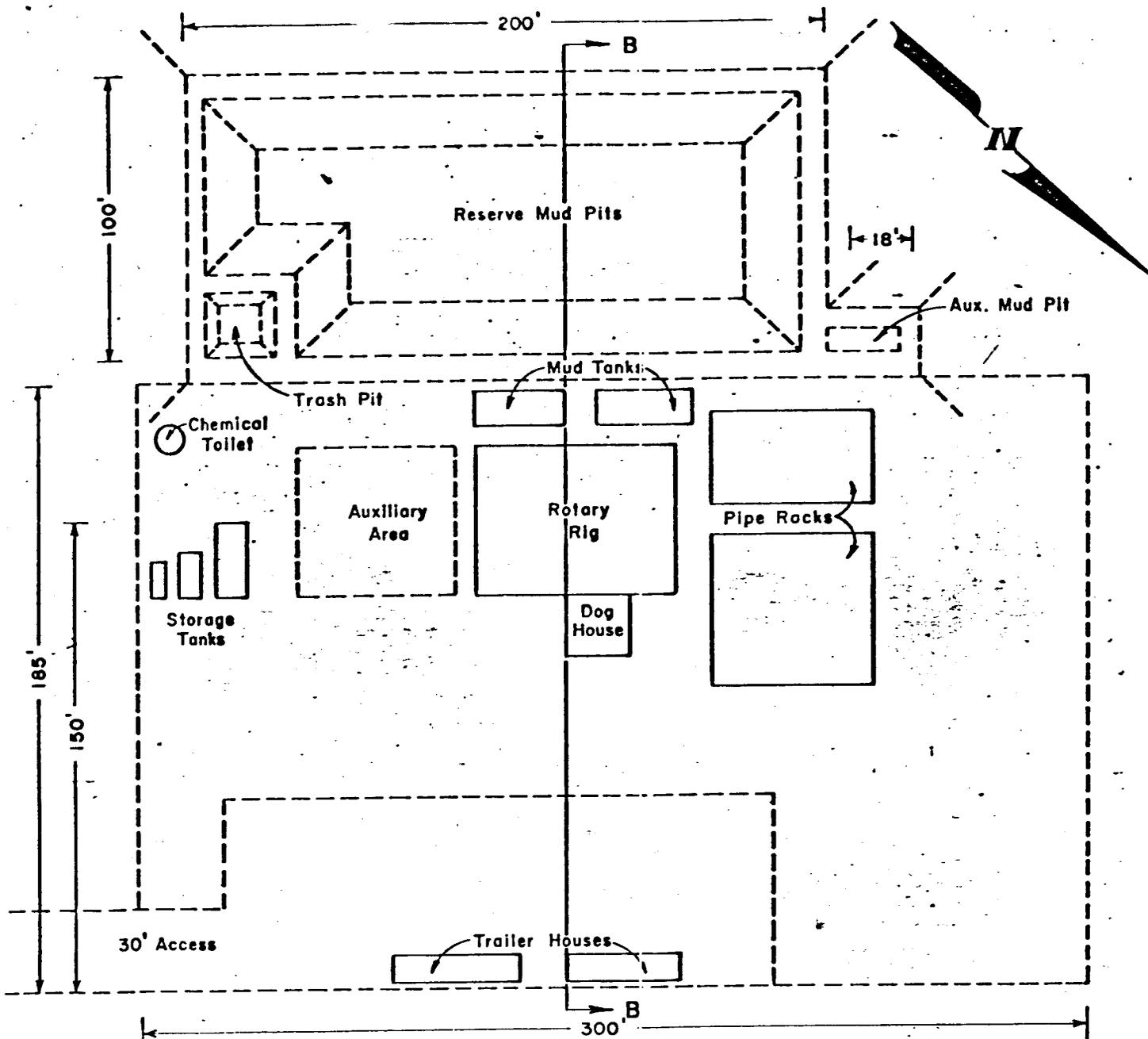
**PROPOSED WELL SITE
AND FACILITIES**
Lone Mountain Canyon No. 1-33
Sec. 1, T. 42 S. - R. 24 E.
1623' FSL - 1959' FEL
San Juan County, Utah

DRAWN BY: JEG DATE 5-4-83 SCALE 1"=2000'

SUPERIOR OIL WESTERN DIVISION

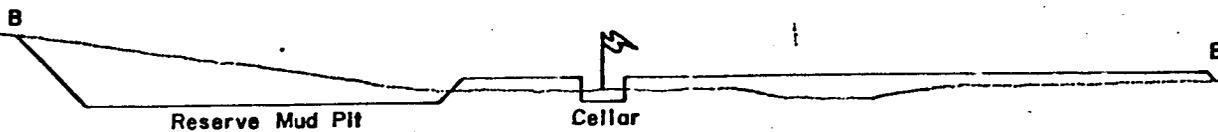
PLAT #2

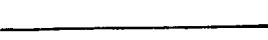
R. 24 E. R. 25 E.
45206



The Drilling Pad will be graded and compacted, and composed of native materials.

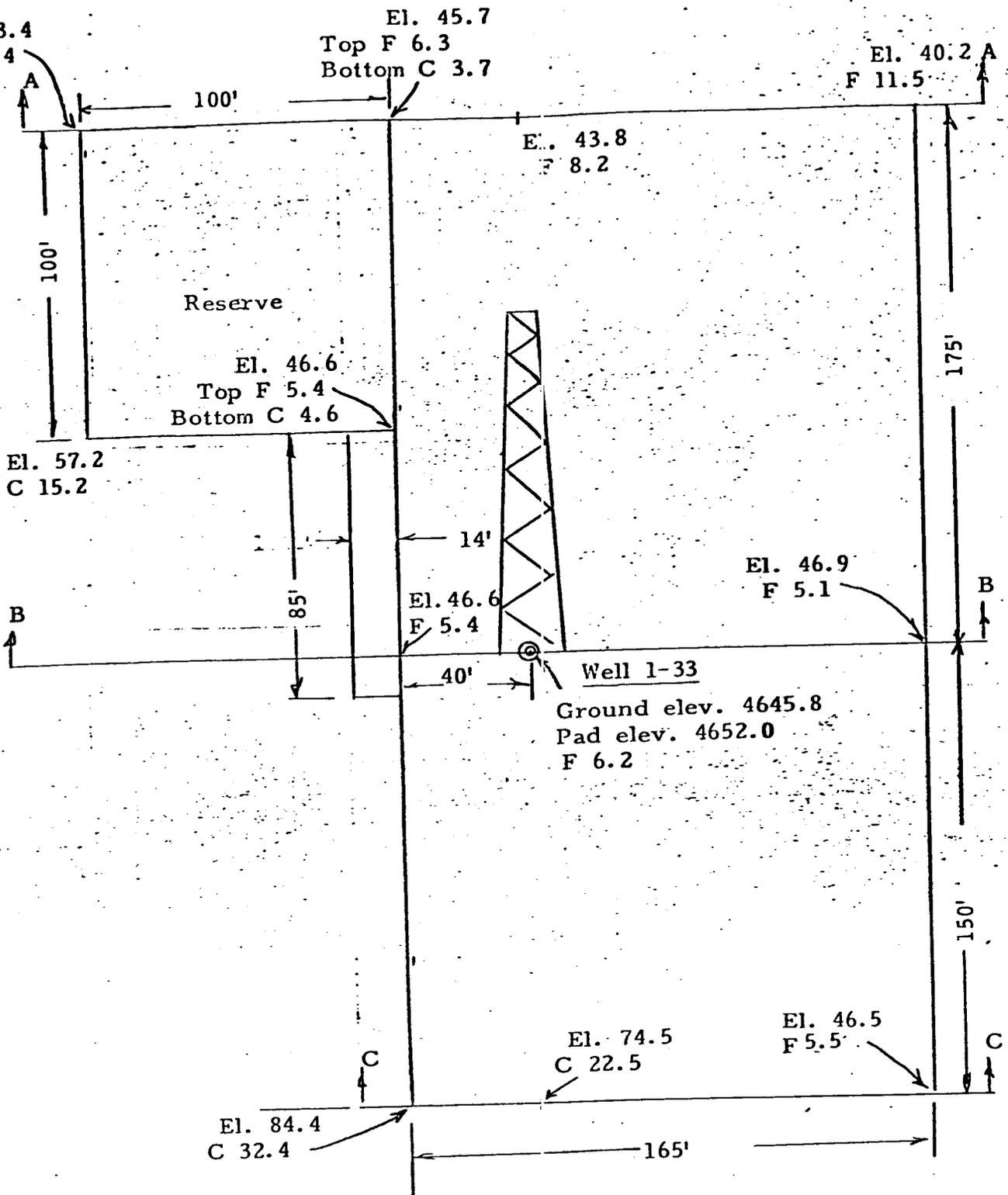
PROPOSED WELL SITE
 L.M.C. 1-33
 Original Elev. 4645.8'



Original Contour 
 Reference Point 
 Graded Proposal 

PLAT #4

THE SUPERIOR OIL CO. 
 CORTEZ - CASPER DISTRICT
 ENGINEERING DEPARTMENT
**RIG LAYOUT & DRILL
 PAD CROSS SECTION**
 LONE MOUNTAIN CANYON 1-33
 Sec. 1, T. 42 S. - R. 24 E. --
 San Juan County, Utah
 BY JEB DATE 5-4-83
 SCALE 1" = 80' REVISED

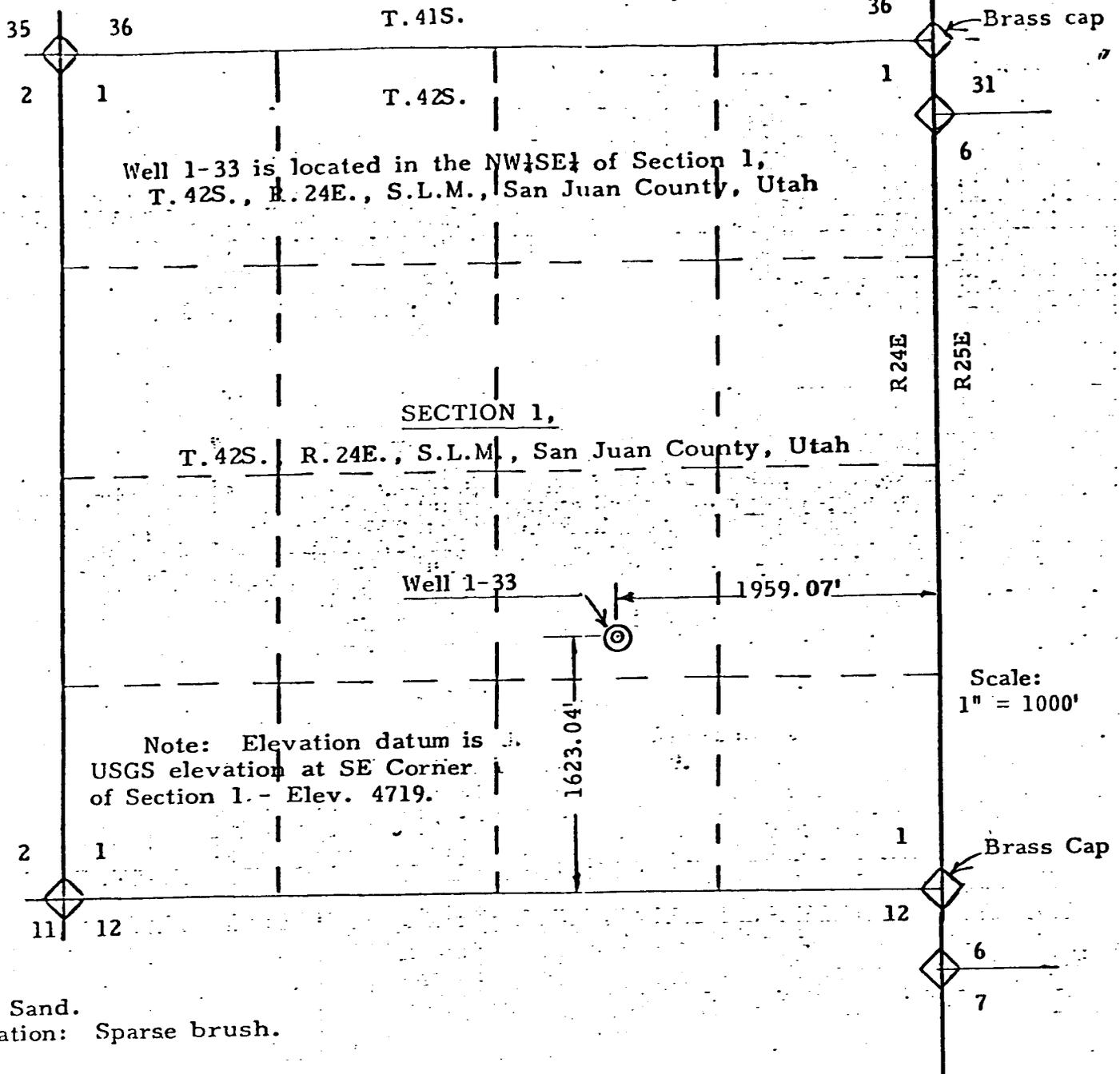


Scale: 1" = 50'

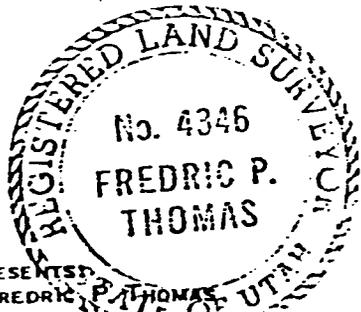
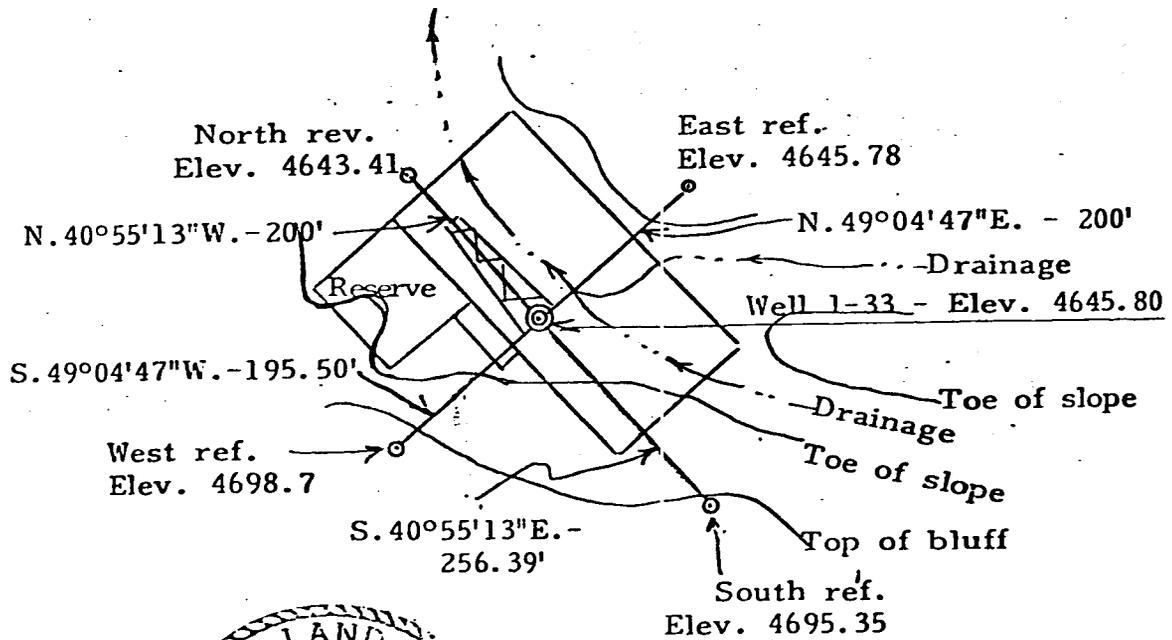


THOMAS Engineering Inc.

25 N. Linden
Cortez, Colorado
565-4496



Soil: Sand.
Vegetation: Sparse brush.



KNOW ALL MEN BY THESE PRESENTS
THAT I, FREDRIC P. THOMAS
do hereby certify that I prepared this plat from an
actual and accurate survey of the land and that the
same is true and correct to the best of my knowledge
and belief.

Fredric P. Thomas
FREDRIC P. THOMAS
Reg. L.S. and P.E.
Colo. Reg. No. 6728

Bearing by
Sole
observation

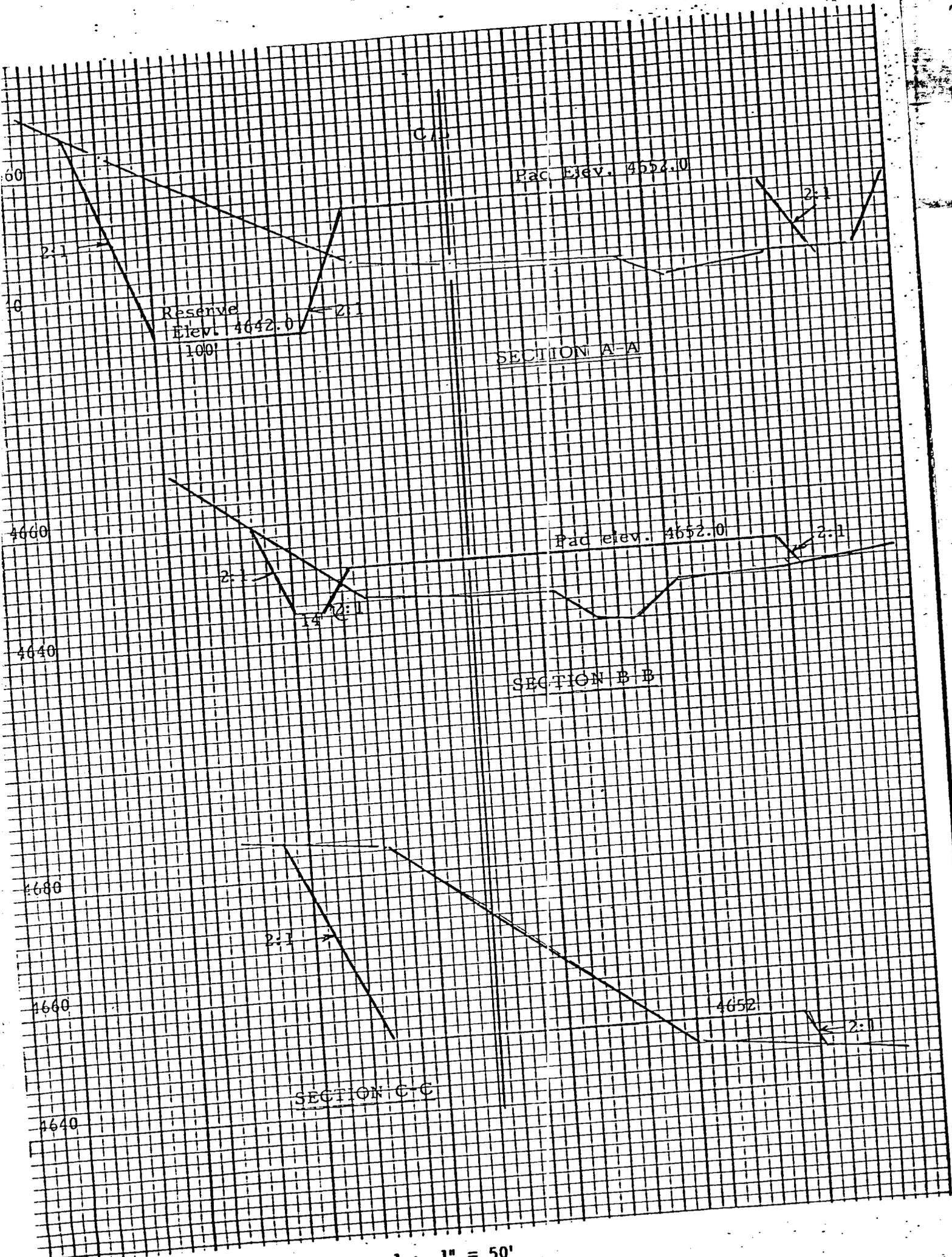
Scale: 1" = 200'

THOMAS Engineering Inc.

215 N. Linden
Cortez, Colorado
365-4496

Utah reg. no. 4346

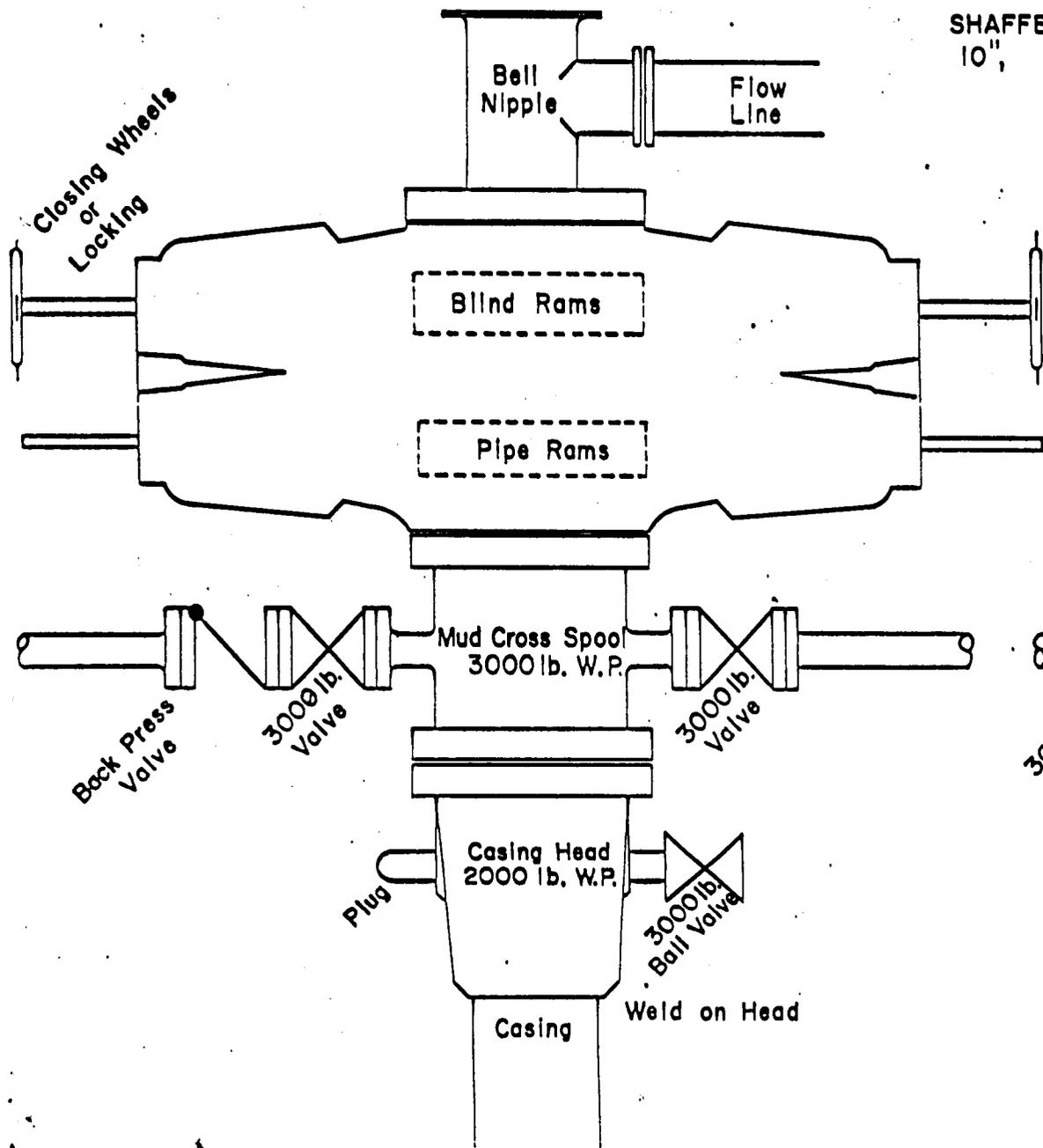
PLAT #6



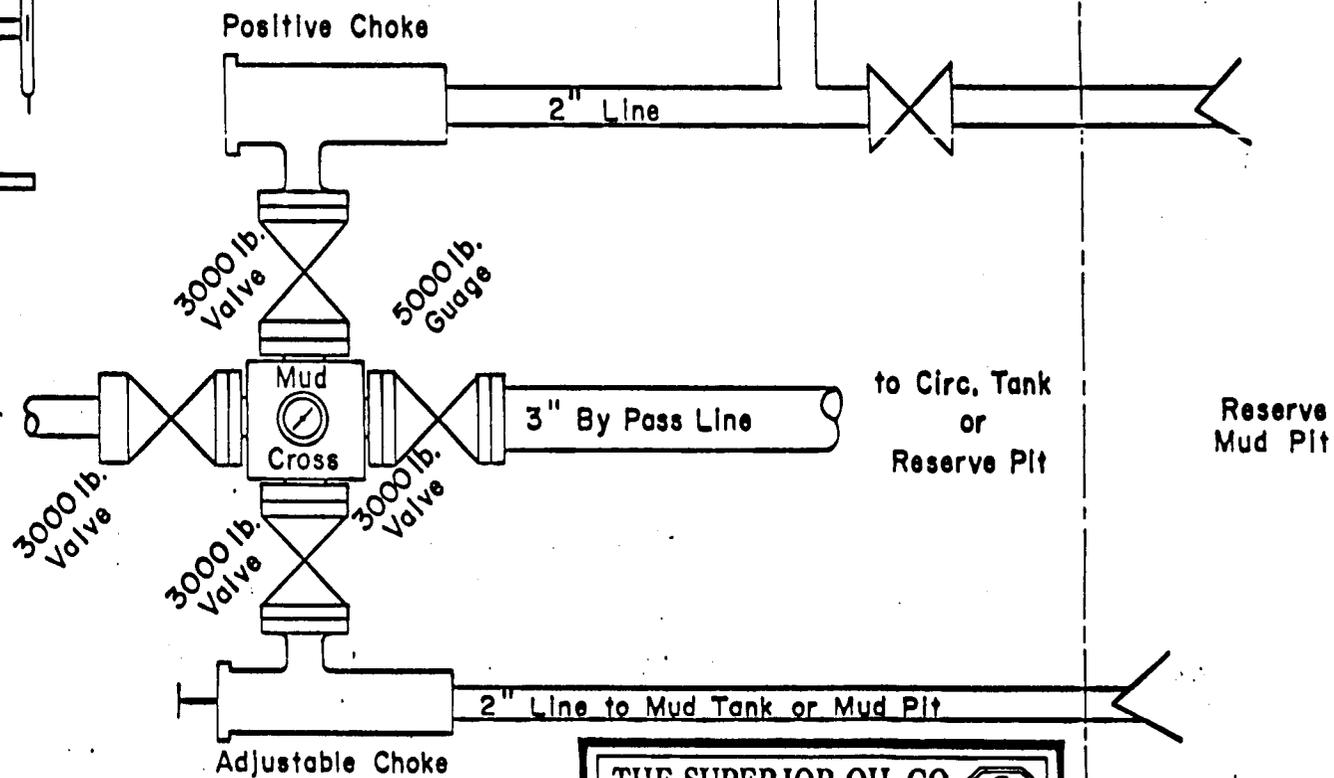
Horizontal scale: 1" = 50'
 Vertical scale: 1" = 20'

THOMAS Engineering Inc.

25 N. Linden
 Cortez, Colorado
 365-4496



SHAFER DOUBLE GATE BLOW OUT PREVENTER
 10", 3000 lb. W.P., 6000 lb. Test, Type E



Circulating Tank

THE SUPERIOR OIL CO.
 CORTEZ-CASPER DISTRICT
 ENGINEERING DEPARTMENT

**SCHEMATIC DIAGRAM
 OF PRESSURE CONTROL
 EQUIPMENT**
 BY JEG
 SCALE NONE
 DATE 6/28/79
 REVISED



STATE OF UTAH
NATURAL RESOURCES & ENERGY
Water Rights

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dee C. Hansen, State Engineer

74 West Main Street • P.O. Box 718 • Price, UT 84501 • 801-637-1303

June 30, 1983

Cottonwood Creek Consolidated Irr. Co.
Attn: John Jorgensen, Secretary
Castle Dale, Utah 84513

Re: Temporary Change 83-93-4

Dear Mr. Jorgensen:

The above numbered Temporary Change Application has been approved. A copy is herewith returned to you for your records and future reference.

Sincerely,

A handwritten signature in cursive script that reads "Mark P. Page".

Mark P. Page
for Dee C. Hansen, P.E.
State Engineer

DCH/MPP/mjk

Enclosure

APPLICATION NO. 83-93-4
DISTRIBUTION SYSTEM Cottonwood Creek

Application For Temporary Change of Point of Diversion, Place or Purpose of Use STATE OF UTAH

(To Be Filed in Duplicate)

Price, Utah June 30, 19 83
Place Date

For the purpose of obtaining permission to temporarily change the point of diversion, place or purpose of use
(Strike out written matter not needed)

of water, the right to the use of which was acquired by Jacob Johnson Decree Feb. 17, 1902
(Give No. of application, title and date of Decree and Award No.)

to that hereinafter described, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

- The owner of right or application is Cottonwood Creek Consolidated Irrigation Company
- The name of the person making this application is Same As Above
- The post office address of the applicant is Castle Dale, Utah 84513

PAST USE OF WATER

- The flow of water which has been used in second feet is 150.512
- The quantity of water which has been used in acre feet is _____
- The water has been used each year from March 1 to October 31, incl.
(Month) (Day) (Month) (Day)
- The water has been stored each year from _____ to _____, incl.
(Month) (Day) (Month) (Day)
- The direct source of supply is Cottonwood Creek in Emery County.
- The water has been diverted into _____ ditch
_____ canal at a point located _____
See Attached Sheet
- The water involved has been used for the following purpose: Irrigation, municipal, industrial,
domestic purposes

Total 15,382.10 acres.

NOTE: If for irrigation, give legal subdivisions of land and total acreage which has been irrigated. If for other purposes, give place and purpose of use.

THE FOLLOWING TEMPORARY CHANGES ARE PROPOSED

- The flow of water to be changed in cubic feet per second is _____
- The quantity of water to be changed in acre-feet is 6.0
- The water will be diverted into the Haul Trucks ditch
_____ canal at a point located E. 520 ft.
from S $\frac{1}{4}$ Cor. Sec. 31, T19S., R8E., SLB&M.
- The change will be made from July 1, 19 83, to October 31, 19 83
(Period must not exceed one year)
- The reasons for the change are This water will be used for the drilling of an
exploration hole.
- The water involved herein has heretofore been temporarily changed 0 years prior to this application.
(List years change has been made)
- The water involved is to be used for the following purpose: Drilling fluid.
SE $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 3, T19S., R7E., SLB&M (Buzzard Bench Unit 6-3)

Total _____ acres.

NOTE: If for irrigation, give legal subdivisions of land to be irrigated. If for other purposes, give place and purpose of proposed use.

EXPLANATORY

A filing fee in the sum of 7.50 is submitted herewith. I agree to pay an additional fee for either investigating or advertising this change, or both, upon the request of the State Engineer.

John L. Jensen
State Engineer

RULES AND REGULATIONS

(Read Carefully)

This application blank is to be used only for temporary change of point of diversion, place or nature of use for a definitely fixed period not to exceed one year. If a permanent change is desired, request proper application blanks from the State Engineer.

Application for temporary change must be filed in duplicate, accompanied by a filing fee of \$7.50. Where the water affected is under supervision of a Water Commissioner, appointed by the State Engineer, time will be saved if the Application is filed with the Commissioner, who will promptly investigate the proposed change and forward both copies with filing fee and his report to the State Engineer. Applications filed directly with the State Engineer will be mailed to the Water Commissioner for investigation and report. If there be no Water Commissioner on the source, the Application must be filed with the State Engineer.

When the State Engineer finds that the change will not impair the rights of others he will authorize the change to be made. If he shall find, either by his own investigation or otherwise, that the change sought might impair existing rights he shall give notice to persons whose rights might be affected and shall give them opportunity to be heard before acting upon the Application. Such notice shall be given five days before the hearing either by regular mail or by one publication in a newspaper. Before making an investigation or giving notice the State Engineer will require the applicant to deposit a sum of money sufficient to pay the expenses thereof.

Address all communications to:

State Engineer
State Capitol Building
Salt Lake City, Utah

STATE ENGINEER'S ENDORSEMENTS

(Not to be filled in by applicant)

- Change Application No.
1. June 30, 1983 Application received by Water Commissioner Ed J. Magnuson (River System)
(Name of Commissioner)
Recommendation of Commissioner \$100.00 deposit + \$5.00 allowed after the first 20
2. June 30, 1983 Application received over counter in State Engineer's Office by SP
by mail
3. Fee for filing application, \$7.50 received by ; Rec. No.
4. Application returned, with letter, to for correction.
5. Corrected application resubmitted over counter to State Engineer's Office.
by mail
6. Fee for investigation requested \$.....
7. Fee for investigation \$....., received by ; Rec. No.
8. Investigation made by ; Recommendations:
9. Fee for giving notice requested \$.....
10. Fee for giving notice \$....., received by ; Rec. No.
11. Application approved for advertising by publication by
mail
12. Notice published in.....
13. Notice of pending change application mailed to interested parties by as follows:
.....
.....
14. Change application protested by
(Date Received and Name)
15. Hearing set for at
16. 6-30-83 Application recommended for rejection approval by SP
17. 6-30-83 Change Application rejected approved and returned to SP

THIS APPLICATION IS APPROVED SUBJECT TO THE FOLLOWING CONDITIONS:

-
-
-

Mark P. Page Area Engineer
FOR State Engineer

DIVERSIONS FOR COTTONWOOD CREEK CONSOLIDATED IRRIGATION COMPANY

Indian Creek #1

S. 730 ft. & E. 1150 ft. from NW Cor. Sec. 15, T16S, R6E, SLB&M.

Indian Creek #2

N. 840 ft. & W. 500 ft. from E $\frac{1}{4}$ Cor. Sec. 21, T16S, R6E, SLB&M.

Indian Creek #3

S. 60 ft. & E. 20 ft. from NW Cor. Sec. 27, T16S, R6E, SLB&M.

Indian Creek #4

S. 670 ft. & W. 120 ft. from N $\frac{1}{4}$ Cor. Sec. 17, T17S, R6E, SLB&M.

Indian Creek #5

S. 1300 ft. & W. 610 ft. from N $\frac{1}{4}$ Cor. Sec. 17, T17S, R6E, SLB&M.

Lowry Creek

S. 300 ft. & W. 860 ft. from NE Cor. Sec. 19, T17S, R6E, SLB&M.

Black Canyon Creek

N. 760 ft. & W. 450 ft. from SE Cor. Sec. 31, T17S, R6E, SLB&M.

Reeder Creek #1

S. 1040 ft. & E. 600 ft. from NW Cor. Sec. 19, T17S, R6E, SLB&M.

Reeder Creek #2

S. 800 ft. & E. 1470 ft. from NW Cor. Sec. 19, T17S, R6E, SLB&M.

Straight Canyon Creek- Hawks Ditch

S. 1040 ft. & E. 100 ft. from N $\frac{1}{4}$ Cor. Sec. 7, T18S, R7E, SLB&M.

Cottonwood Creek (Jim Peacock)

N. 190 ft. & E. 870 ft. from S $\frac{1}{4}$ Cor. Sec. 6, T18S, R7E, SLB&M.

Johnson Ditch

S. 650 ft. & E. 1420 ft. from W $\frac{1}{4}$ Cor. Sec. 9, T18S, R7E, SLB&M.

Clipper-Western Canal

S. 220 ft. & E. 1100 ft. from NW Cor. Sec. 15, T18S, R7E, SLB&M.

Crawford & Swasey Ditch

S. 1050 ft. & E. 1040 ft. from N $\frac{1}{4}$ Cor. Sec. 15, T18S, R7E, SLB&M.

Mammoth Canal

N. 930 ft. & E. 1190 ft. from S $\frac{1}{4}$ Cor. Sec. 14, T18S, R7E, SLB&M.

Blue Cut Canal

N. 230 ft. & W. 680 ft. from SE Cor. Sec. 19, T18S, R8E, SLB&M.

Jones Ditch

N. 800 ft. & W. 1200 ft. from SE Cor. Sec. 9, T18S, R7E, SLB&M.

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
SUPERIOR OIL COMPANY

3. ADDRESS OF OPERATOR
P.O. DRAWER 'G' CORTEZ, COLORADO 81321

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1623' FSL, 1959' FEL, NWSE SEC. 1
AT TOP PROD. INTERVAL: same
AT TOTAL DEPTH: same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

5. LEASE
N00-C-14-20-5119

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
NAVAJO

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
LONE MOUNTAIN CANYON

9. WELL NO.
#1-33

10. FIELD OR WILDCAT NAME
WILDCAT

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
SEC. 1, T42S, R24E

12. COUNTY OR PARISH | 13. STATE
SAN JUAN | UTAH

14. API NO.
43-037-30908

15. ELEVATIONS (SHOW DF, KDB, AND WD)
4645.8'

REQUEST FOR APPROVAL TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF <input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE <input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES <input type="checkbox"/>	<input type="checkbox"/>
ABANDON* <input type="checkbox"/>	<input type="checkbox"/>
(other) Amendment to APD <input type="checkbox"/>	

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

A 7-7/8" hole will be drilled instead of an 8-5/8" hole to a depth of 5515' to run 5-1/2" production casing. Quantity of cement will be the same.

RECEIVED

JUN 28 1983

MINING

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED James S. Andres TITLE PETROLEUM ENGINEER DATE 06/28/83

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

Orig + 5 - BLM, State, BIA
Lorraine Thomas (Compliance)

L. Novacek, D. Rosprim, Drilling
Reg (Woodlands) Files; H, D, C



STATE OF UTAH
 NATURAL RESOURCES & ENERGY
 Water Rights

Scott M. Matheson, Governor
 Temple A. Reynolds, Executive Director
 Dee C. Hansen, State Engineer

74 West Main Street • P.O. Box 718 • Price, UT 84501 • 801-637-1303

July 5, 1983

State Of Utah
 Division of Oil, Gas & Mining
 Attn: Arlene Sollis
 4241 State Office Building
 Salt Lake City, Utah 84114

Dear Ms. Sollis:

Enclosed is the paper work concerning two water rights for Superior Oil Company. One pertains to the Lone Mountain Canyon well number 1-33' located in Section 1, T42S, R24E, SLB&M. The water to be used for the drilling of this well is covered by Temporary Change Application No. 83-09-3, which is covered by certificated right no. 09-229 in the name of Superior Oil Company. A copy of that application is enclosed along with a copy of the approval letter.

The second water right that Superior Oil Company has recently made arrangements on pertains to Application Number 54448 (09-1130) which is in the name of Crowley Ranches, Inc. of East Route, Monticello, Utah. This application is approved for such uses as Superior Oil is intending. Therefore, no formal paper work is required by our office. A copy of this application is enclosed for your reference. The well to be drilled is referenced as Horsehead Point No. 18-44. The water hauler on each of these wells will be Hay Hot Oil, which is operated by Chet Roach of Montezuma Creek, Utah.

Also enclosed is a Temporary Change Application recently filed by Cottonwood Creek Consolidated Irrigation Company referenced as Application Number 83-93-4. This application was approved June 30, 1983 for use at the Buzzard Bench Unit Well number 6-3 located in the SE4NW4 Sec. 3, T19S, R7E, SLB&M. The water will be transported from the canal to the drill site by D&D Construction of Helper, Utah. Enclosed for your files is a copy of the application and attachments.

If you have any questions concerning any of these rights, please feel free to contact me.

Sincerely,

Mark P. Page
 Area Engineer

RECEIVED
 JUL 9 1983

DIVISION OF
 OIL, GAS & MINING

Enclosures

Deputy State Engineer: Earl M. Stover Area Engineer: Mark P. Page
 or e-mail: earl@state.gov or e-mail: mark@state.gov

APPLICATION NO. 83-09-3
DISTRIBUTION SYSTEM

Application For Temporary Change of Point of Diversion, Place or Purpose of Use STATE OF UTAH

(To Be Filed in Duplicate)

Cortez, Colorado June 30, 19 83
Place Date

For the purpose of obtaining permission to temporarily change the point of diversion, place or purpose of use
(Strike out written matter not needed)

of water, the right to the use of which was acquired by 29718 (A-3777), 09-229, Cert. No. 8446
(Give No. of application, title and date of Decree and Award No.)
to that hereinafter described, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

- The owner of right or application is The Superior Oil Company
- The name of the person making this application is Same as above
- The post office address of the applicant is P.O. Drawer G, Cortez, Colorado 81321

PAST USE OF WATER

- The flow of water which has been used in second feet is 6.45
- The quantity of water which has been used in acre feet is
- The water has been used each year from January 1 to December 31 incl.
(Month) (Day) (Month) (Day)
- The water has been stored each year from to incl.
(Month) (Day) (Month) (Day)
- The direct source of supply is Underground Water (22 wells) San Juan County
- The water has been diverted into ditch at a point located See Attached Sheet
canal
- The water involved has been used for the following purpose: Secondary Oil recovery

Total _____ acres

NOTE: If for irrigation, give legal subdivisions of land and total acreage which has been irrigated. If for other purposes, give place and purpose of use.

THE FOLLOWING TEMPORARY CHANGES ARE PROPOSED

- The flow of water to be changed in cubic feet per second is
- The quantity of water to be changed in acre-feet is 2.0
- The water will be diverted into a tank truck See attached sheet
from the collection point of the wells listed on the attachment.
ditch
canal
- The change will be made from July 5, 19 83 to August 31, 19 83
(Period must not exceed one year)
- The reasons for the change are Source of water for exploratory drilling
- The water involved herein has heretofore been temporarily changed 0 years prior to this application.

(List years change has been made)

- The water involved is to be used for the following purpose: Exploratory drilling fluid for a well
to be drilled at the following location: N. 1623 ft. & W. 1959 ft. from SE Cor. Sec. 1,
T42S, R24E, SLB&M. Total _____ acres

NOTE: If for irrigation, give legal subdivisions of land to be irrigated. If for other purposes, give place and purpose of proposed use.

EXPLANATORY

.....
.....
.....
.....

A filing fee in the sum of \$5.00 is submitted herewith. I agree to pay an additional fee for either investigating or advertising this change, or both, upon the request of the State Engineer.

W. Helwig
.....

RULES AND REGULATIONS

(Read Carefully)

This application blank is to be used only for temporary change of point of diversion, place or nature of use for a definitely fixed period not to exceed one year. If a permanent change is desired, request proper application blanks from the State Engineer.

Application for temporary change must be filed in duplicate, accompanied by a filing fee of \$7.50. Where the water affected is under supervision of a Water Commissioner, appointed by the State Engineer, time will be saved if the Application is filed with the Commissioner, who will promptly investigate the proposed change and forward both copies with filing fee and his report to the State Engineer. Applications filed directly with the State Engineer will be mailed to the Water Commissioner for investigation and report. If there be no Water Commissioner on the source, the Application must be filed with the State Engineer.

When the State Engineer finds that the change will not impair the rights of others he will authorize the change to be made. If he shall find, either by his own investigation or otherwise, that the change sought might impair existing rights he shall give notice to persons whose rights might be affected and shall give them opportunity to be heard before acting upon the Application. Such notice shall be given five days before the hearing either by regular mail or by one publication in a newspaper. Before making an investigation or giving notice the State Engineer will require the applicant to deposit a sum of money sufficient to pay the expenses thereof.

Address all communications to:
State Engineer
State Capitol Building
Salt Lake City, Utah

STATE ENGINEER'S ENDORSEMENTS

(Not to be filled in by applicant)

Change Application No. (River System)

- 1. Application received by Water Commissioner (Name of Commissioner)
Recommendation of Commissioner
2. July 5, 1983 Application received over counter by mail in State Engineer's Office by AP
3. Fee for filing application, \$7.50 received by ; Rec. No.
4. Application returned, with letter, to for correction.
5. Corrected application resubmitted over counter by mail to State Engineer's Office.
6. Fee for investigation requested \$
7. Fee for investigation \$, received by ; Rec. No.
8. Investigation made by ; Recommendations:
9. Fee for giving notice requested \$
10. Fee for giving notice \$, received by ; Rec. No.
11. Application approved for advertising by publication mail by
12. Notice published in
13. Notice of pending change application mailed to interested parties by as follows:
14. Change application protested by (Date Received and Name)
15. Hearing set for, at
16. 6-5-83 Application recommended for rejection approval by AP
17. 6-5-83 Change Application rejected approved and returned to

THIS APPLICATION IS APPROVED SUBJECT TO THE FOLLOWING CONDITIONS:

- 1.
2.
3.

Handwritten signature: Mad. P. Page, State Engineer



STATE OF UTAH
NATURAL RESOURCES & ENERGY
Water Rights

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dee C. Hansen, State Engineer

74 West Main Street • P.O. Box 718 • Price, UT 84501 • 801-637-1303

July 5, 1983

The Superior Oil Company
P.O. Drawer G
Cortez, Colorado 81321

Re: Temporary Change 83-09-3

Dear Sirs:

The above numbered Temporary Change Application has been approved.
A copy is herewith returned to you for your records and future reference.

Sincerely,

Mark P. Page
for Dee C. Hansen, P.E.
State Engineer

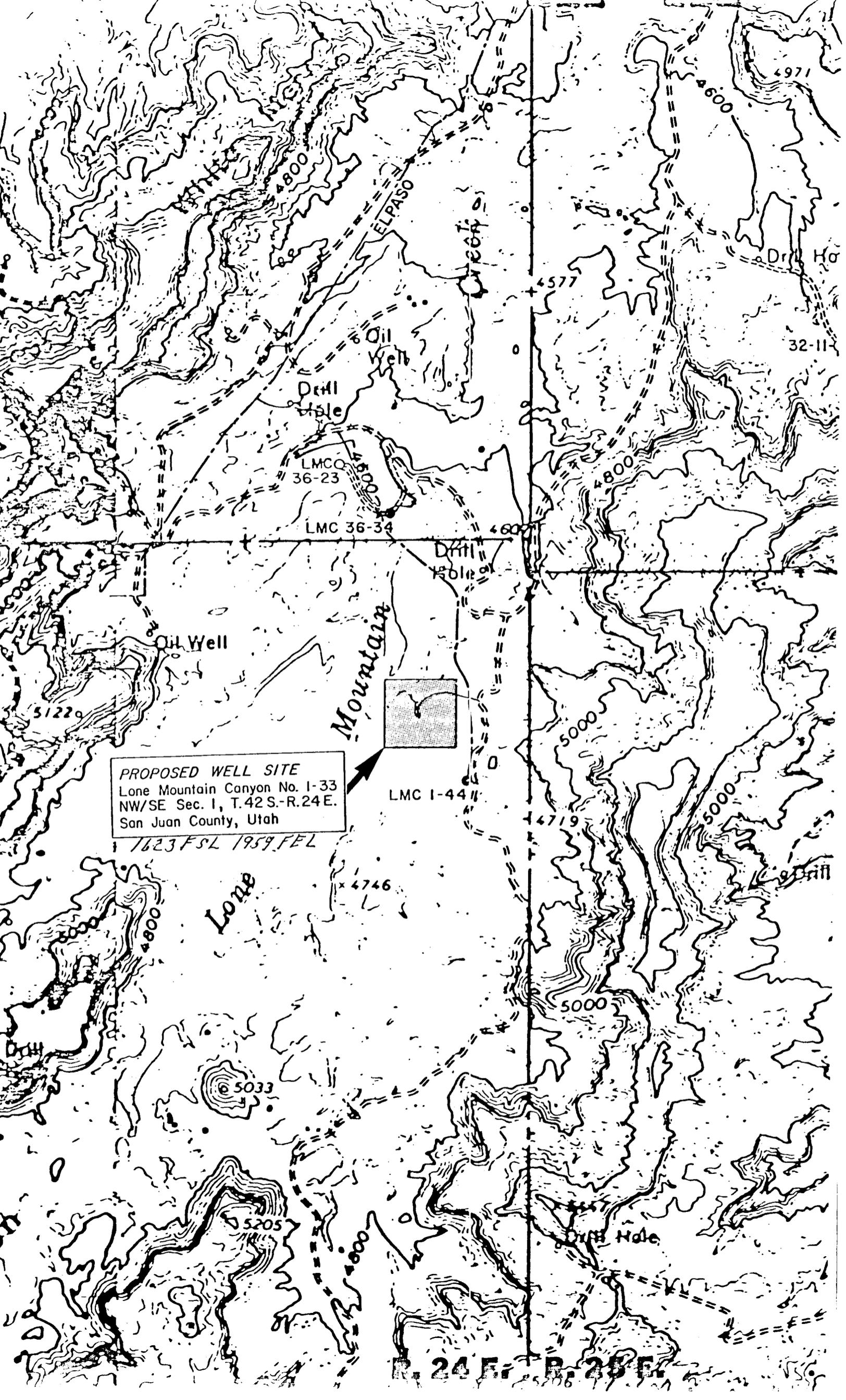
DCH/MPP/mjk

Enclosure

Point of diversion and Method of diversion:

<u>Well</u>	<u>Point of Diversion</u>	<u>Diameter</u>	<u>Depth</u>
1 - N. 2142 ft. E. 437 ft. from SW Cor. Sec. 17, T41S, R25E, SLBM		8-inch	34 ft.
2 - N. 1978 ft. E. 682 ft. from SW Cor. Sec. 17, T41S, R25E, SLBM		12-inch	29 ft.
3 - N. 1805 ft. E. 930 ft. from SW Cor. Sec. 17, T41S, R25E, SLBM		12-inch	29 ft.
4 - N. 1605 ft. E. 1150 ft. from SW Cor. Sec. 17, T41S, R25E, SLBM		12-inch	26 ft.
5 - N. 1400 ft. E. 1382 ft. from SW Cor. Sec. 17, T41S, R25E, SLBM		12-inch	26 ft.
6 - N. 1178 ft. E. 1582 ft. from SW Cor. Sec. 17, T41S, R25E, SLBM		12-inch	28 ft.
7 - N. 935 ft. E. 1711 ft. from SW Cor. Sec. 17, T41S, R25E, SLBM		12-inch	29 ft.
8 - N. 741 ft. E. 1950 ft. from SW Cor. Sec. 17, T41S, R25E, SLBM		12-inch	28 ft.
9 - N. 650 ft. E. 2028 ft. from SW Cor. Sec. 17, T41S, R25E, SLBM		12-inch	29 ft.
10 - N. 582 ft. E. 2500 ft. from SW Cor. Sec. 17, T41S, R25E, SLBM		12-inch	29 ft.
11 - N. 541 ft. E. 2490 ft. from SW Cor. Sec. 17, T41S, R25E, SLBM		12-inch	28 ft.
12 - N. 752 ft. E. 2290 ft. from SW Cor. Sec. 17, T41S, R25E, SLBM		12-inch	28 ft.
13 - S. 2050 ft. W. 145 ft. from NE Cor. Sec. 18, T41S, R25E, SLBM		12-inch	24 ft.
14 - S. 2028 ft. W. 418 ft. from NE Cor. Sec. 18, T41S, R25E, SLBM		12-inch	23.5 ft.
15 - S. 2217 ft. E. 105 ft. from NW Cor. Sec. 17, T41S, R25E, SLBM		12-inch	28 ft.
16 - S. 2482 ft. E. 222 ft. from NW Cor. Sec. 17, T41S, R25E, SLBM		12-inch	29 ft.
17 - N. 2500 ft. E. 302 ft. from SW Cor. Sec. 17, T41S, R25E, SLBM		12-inch	29 ft.
18 - N. 765 ft. E. 2380 ft. from SW Cor. Sec. 17, T41S, R25E, SLBM		12-inch	28.5 ft.
19 - Abandoned			
20 - N. 982 ft. E. 1902 ft. from SW Cor. Sec. 17, T41S, R25E, SLBM		12-inch	28.5 ft.
21 - Abandoned			
22 - Abandoned			
P1t- S. 1740 ft. W. 640 ft. from NE Cor. Sec. 18, T41S, R25E, SLBM			
23 - N. 650 ft. E. 2028 ft. from SW Cor. Sec. 17, T41S, R25E, SLBM		12-inch	28 ft.
24 - N. 755 ft. E. 1783 ft. from SW Cor. Sec. 17, T41S, R25E, SLBM		12-inch	61 ft.
25 - N. 590 ft. E. 2337 ft. from SW Cor. Sec. 17, T41S, R25E, SLBM		12-inch	28 ft.

Wells # 1, 12, 15, 18, 20, 23 - 25 SEC 17, T41S, R25E
 # 13, 14 SEC 18, T41S, R25E



PROPOSED WELL SITE
Lone Mountain Canyon No. I-33
NW/SE Sec. I, T.42 S.-R.24 E.
San Juan County, Utah
1623 FSL 1959 FEL

LMC I-44

Lone Mountain

R. 24 E. R. 25 E.

09-229

**CERTIFICATE OF APPROPRIATION OF WATER
STATE OF UTAH**

Water User's Claim No. 09-229 Application No. 29718
a-3777 Certificate No. 8446

1. Name and address of appropriator The Superior Oil Company
P. O. Drawer G, Cortez, Colorado 81321

Whereas, it has been made to appear to the satisfaction of the undersigned that the appropriation of water has been perfected under the above numbered application in accordance with the Laws of Utah; Therefore, Be it known that the State Engineer hereby certifies that said appropriator is entitled to the use of water subject to prior rights, if any, as follows:

2. Period and nature of use:
Irrigation from _____ to _____
Domestic from _____ to _____
Stockwatering from _____ to _____
Municipal from _____ to _____
Other **Industrial** from January 1 to December 31

3. Source of supply Underground water (22 wells)

4. Drainage area Colorado River

5. Quantity of water 6.45 c.f.s.

6. Priority of right February 14, 1958

7. Point of diversion See Attached Sheet

San Juan County, Utah.

8. Method of diversion 22 wells, 8 to 12 inch diameter, 26 to 61 feet deep
and pipeline to place of use

9. Place and/or extent of use: **Secondary oil recovery:**
S $\frac{1}{2}$ Section 36, T40S, R24E, SLBM; W $\frac{1}{2}$ SE $\frac{1}{4}$, E $\frac{1}{2}$ SW $\frac{1}{4}$ Section 21,
W $\frac{1}{2}$ W $\frac{1}{2}$ Section 27, Section 28, S $\frac{1}{2}$ Section 29, E $\frac{1}{2}$, SW $\frac{1}{4}$
Section 31, Section 32, Section 33, W $\frac{1}{2}$ W $\frac{1}{2}$, W $\frac{1}{2}$ NE $\frac{1}{4}$ Section 34,
T40S, R25E, SLBM; Section 1, Section 2, E $\frac{1}{2}$ NE $\frac{1}{4}$, N $\frac{1}{2}$, N $\frac{1}{2}$ S $\frac{1}{2}$,
S $\frac{1}{2}$ SE $\frac{1}{4}$ Section 11, Section 12, Section 13, E $\frac{1}{2}$ E $\frac{1}{2}$ Section 14,
N $\frac{1}{2}$ Section 24, T41S, R24E, SLBM; W $\frac{1}{2}$ Section 3, Section 4,
Section 5, Section 6, Section 7, Section 8, N $\frac{1}{2}$, SW $\frac{1}{4}$,
W $\frac{1}{2}$ SE $\frac{1}{4}$ Section 9, W $\frac{1}{2}$ NW $\frac{1}{4}$ Section 10, NW $\frac{1}{4}$, N $\frac{1}{2}$ SW $\frac{1}{4}$ Section 16,
Section 17, Section 18, NW $\frac{1}{4}$, W $\frac{1}{2}$ NE $\frac{1}{4}$, W $\frac{1}{2}$ SW $\frac{1}{4}$, W $\frac{1}{2}$ SE $\frac{1}{4}$ Section 19,
W $\frac{1}{2}$ NW $\frac{1}{4}$ Section 20, T41S, R25E, SLBM

10. Other rights appurtenant _____

The works employed in this appropriation are to be operated and maintained in such a manner and condition as will prevent waste of water. This certificate entitles the holder to use only sufficient water from all rights combined to constitute an economic duty without waste.

The right evidenced by this certificate is subject to review by the courts in any adjudication proceeding.

In Witness Whereof, I have hereunto set my hand and affixed the seal of my office this 22nd day
of August, 19 69.

Hubert C. Lambert
Hubert C. Lambert, State Engineer

APPLICATION TO APPROPRIATE WATER
STATE OF UTAH

09-1130

NOTE:—The information given in the following blanks should be free from explanatory matter, but when necessary, a complete supplementary statement should be made on the following page under the heading "Explanatory."

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, for uses indicated by (X) in the proper box or boxes, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

1. Irrigation Domestic Stockwatering Municipal Power Mining Other Uses

2. The name of the applicant is Crowley Ranch, Inc

3. The Post Office address of the applicant is East Route, Monticello, Utah 84535

4. The quantity of water to be appropriated _____ second-feet and/or 20 acre-feet

5. The water is to be used for Stock watering from 4-1 to 11-31
(Major Purpose) (Month) (Day) (Month) (Day)

other use period As needed from 1-1 to 12-31
(Minor Purpose) (Month) (Day) (Month) (Day)

and stored each year (if stored) from 1-1 to 12-31
(Month) (Day) (Month) (Day)

6. The drainage area to which the direct source of supply belongs is _____
(Leave Blank)

7. The direct source of supply is* Long Draw runoff
(Name of stream or other source)

which is tributary to Horsehead Canyon, tributary to Montezuma Creek

*Note.—Where water is to be diverted from a well, a tunnel, or drain, the source should be designated as "Underground Water" in the first space and the remaining spaces should be left blank. If the source is a stream, a spring, a spring area, or a drain, so indicate in the first space, giving its name, if named, and in the remaining spaces, designate the stream channels to which it is tributary, even though the water may sink, evaporate, or be diverted before reaching said channels. If water from a spring flows in a natural surface channel before being diverted, the direct source should be designated as a stream and not a spring.

8. The point of diversion from the source is in San Juan County, situated at a point*
South 1400 ft and West 300 ft from the NE corner
of Section 25-T34S-R25E SLM

(1 mile SE of Eastland)

*Note.—The point of diversion must be located definitely by course and distance or by giving the distances north or south, and east or west with reference to a United States land survey corner or United States mineral monument, if within a distance of six miles of either, or if at a greater distance, to some prominent and permanent natural object. No application will be received for filing in which the point of diversion is not defined definitely.

9. The diverting and carrying works will consist of None

10. If water is to be stored, give capacity of reservoir in acre-feet 20 height of dam 8 ft
area inundated in acres 3 legal subdivision of area inundated SE/4 NE/4 Section 25-34S-25E SLM

11. If application is for irrigation purposes, the legal subdivisions of the area irrigated are as follows:
None

12. Is the land owned by the applicant? Yes No _____ Total _____ Acres
If "No," explain on page 2.

13. Is this water to be used supplementally with other water rights? Yes _____ No
If "yes," identify other water rights on page 2.

14. If application is for power purposes, describe type of plant, size and rated capacity. None

15. If application is for mining, the water will be used in _____ Mining District at
the _____ mine, where the following ores are mined _____

16. If application is for stockwatering purposes, number and kind of stock watered 40 head cattle

17. If application is for domestic purposes, number of persons None, or families _____

18. If application is for municipal purposes, name of municipality None

19. If application is for other uses, include general description of proposed uses road work,
seismograph, exploratory drilling, core drilling

20. Give place of use by legal subdivision of the United States Land Survey for all uses described in paragraphs 14 to 19, incl. Where needed in SE 1/4 NE 1/4 Sec. 25, T34S, R25E, SLB&M.

21. The use of water as set forth in this application will consume 20 second-feet and/or acre-feet of water and None* second feet and/ or acre feet will be returned to the natural stream or source at a point described as follows: _____

*Replenished with surface runoff only.

EXPLANATORY

The following additional facts are set forth in order to define more clearly the full purpose of the proposed application:

Lined area for additional facts.

(Use page 4 if additional explanatory is needed.)

The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purpose herein described

Crowley Ranch Inc: James Crowley, President
By: Signature of Applicant*

*If applicant is a corporation or other organization, signature must be the name of such corporation or organization by its proper officer, or in the name of the partnership by one of the partners, and the names of the other partners shall be listed. If a corporation or partnership, the affidavit below need not be filled in. If there is more than one applicant, a power of attorney, authorizing one to act for all, should accompany the Application.

DECLARATION OF CITIZENSHIP

STATE OF UTAH San Juan } ss
County of.....

On the 31st day of March, 1980, personally appeared before me, a notary public for the State of Utah, the above applicant who, on oath, declared that he is a citizen of the United States, or has declared his intention to become such a citizen.

My commission expires: 1-28-84

Signature of Notary Public

(SEAL)

Clair R. Gorman Notary Public

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: SUPERIOR OIL COMPANY

WELL NAME: Lone Mountain Canyon #1-33

SECTION NWSE 1 TOWNSHIP 42S RANGE 24E COUNTY San Juan

DRILLING CONTRACTOR Arapahoe

RIG # 2

SPUDDED: DATE 7-6-83

TIME 5:00 AM

How Rotary

DRILLING WILL COMMENCE _____

REPORTED BY W. H. Edwards

TELEPHONE # _____

DATE 6-7-83

SIGNED RJF

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

CORE ANALYSIS REPORT

FOR

THE SUPERIOR OIL COMPANY

LONE MOUNTAIN CANYON 1-33
ANETH
SAN JUAN COUNTY, UTAH

RECEIVED

AUG 20 1983

DIVISION OF
OIL, GAS & MINING

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DIVISION OF
OIL, GAS & MINING

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
 DALLAS, TEXAS

PAGE NO. 1

The Superior Oil Company

LONE MOUNTAIN CANYON 1-33
 ANETH
 SAN JUAN COUNTY

FORMATION : DESERT CREEK
 DRLG. FLUID: WBM
 LOCATION : NW, SE SEC. 1-42S-24E
 STATE : UTAH

DATE : 7-22-83
 FILE NO. : 3803-003274
 ANALYSTS : GG:DS
 ELEVATION: 4665 KB

FULL DIAMETER ANALYSIS---BOYLE'S LAW HELIUM POROSITY

SAMP.	DEPTH	PERM. TO AIR (MD)			POR. B.L.	FLUID SATS.		GR. DNS.	DESCRIPTION
		MAX.	90 DEG.	VERTICAL		OIL	WATER		
	5312-5324							SHALE - NO ANALYSIS	
1	5324-25	<0.01	*		2.0	62.4	24.3	2.74 LM DKGRY VFXLN SHL	
2	5325-26	<0.01	*		4.2	55.9	32.9	2.75 LM DKGRY VFXLN SHL	
3	5326-27	<0.01	*		0.5	68.0	21.5	2.75 LM DKGRY VFXLN SHL	
	5327-5350							ANHYDRITE - NO ANALYSIS	
4	5350-51	0.63	0.05	0.06	6.6	9.1	36.3	2.80 DOL BRN VFXLN SL/CALC SL/SHL	
5	5351-52	0.52	0.12	0.11	9.7	15.2	40.5	2.81 DOL BRN VFXLN SL/CALC SL/SHL	
6	5352-53	0.24	0.22	0.06	12.4	25.2	55.7	2.81 DOL BRN VFXLN SL/CALC SL/SHL	
7	5353-54	0.42	0.33	0.07	8.2	1.1	83.3	2.86 DOL BRN VFXLN SL/CALC SL/SHL	
8	5354-55	0.29	0.07	0.03	6.1	15.8	76.7	2.85 DOL BRN VFXLN SL/CALC SL/SHL	
9	5355-56	<0.01	*	<0.01	1.2	72.5	10.4	2.79 DOL BRN VFXLN SL/CALC SL/SHL	
10	5356-57	<0.01	*	<0.01	2.8	43.1	34.5	2.79 DOL BRN VFXLN SL/CALC SL/SHL	
11	5357-58	0.49	0.46	0.03	4.2	7.7	46.3	2.81 DOL BRN VFXLN SL/CALC SL/SHL	
12	5358-59	0.04	*	0.03	7.7	1.8	51.8	2.82 DOL BRN VFXLN SL/CALC SL/SHL	
13	5359-60	0.10	*	0.06	11.0	16.2	36.1	2.82 DOL BRN VFXLN SL/ANHY	
14	5360-61	0.85	0.58	0.29	12.4	11.2	41.1	2.83 DOL BRN VFXLN SL/ANHY	
15	5361-62	0.13	0.12	0.07	9.7	11.3	48.6	2.83 DOL BRN VFXLN SL/ANHY	
16	5362-63	0.21	0.14	0.10	9.1	13.5	33.8	2.84 DOL BRN VFXLN SL/ANHY	
17	5363-64	0.51	0.34	0.16	6.9	17.7	17.7	2.83 DOL BRN VFXLN SL/ANHY	
18	5364-65	0.96	0.92	0.18	4.0	6.8	40.9	2.86 DOL BRN VFXLN SL/ANHY	
19	5365-66	0.97	0.80	0.46	4.9	12.5	50.1	2.89 DOL BRN VFXLN SL/ANHY	
20	5366-67	1.4	1.1	0.61	7.3	14.3	31.0	2.86 DOL BRN VFXLN SL/ANHY	
21	5367-68	0.36	0.35	0.14	10.5	16.1	12.1	2.82 DOL BRN VFXLN SL/CALC	
22	5368-69	<0.01	*	<0.01	0.9	8.6	30.2	2.71 LM GRY VFXLN	
23	5369-70	<0.01	*	<0.01	0.6	0.0	73.4	2.71 LM GRY VFXLN	

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The Superior Oil Company

LONE MOUNTAIN CANYON 1-33
 ANETH
 SAN JUAN COUNTY

FORMATION : DESERT CREEK
 DRLG. FLUID: WBM
 LOCATION : NW,SE SEC.1-42S-24E
 STATE : UTAH

DATE : 7-22-83
 FILE NO. : 3803-003274
 ANALYSTS : GG:DS
 ELEVATION: 4665 KB

FULL DIAMETER ANALYSIS---BOYLE'S LAW HELIUM POROSITY

SAMP. NO.	DEPTH	PERM. TO AIR (MD)			POR. B.L.	FLUID SATS.		GR. DNS.	DESCRIPTION
		MAX.	90 DEG.	VERTICAL		OIL	WATER		
24	5370-71	2.9	0.59	0.87	1.2	0.0	44.5	2.73	LM GRY VFXLN
25	5371-72	<0.01	*		2.8	0.0	38.1	2.76	LM GRY VFXLN
26	5372-73	<0.01	*		0.6	7.9	79.0	2.72	LM GRY VFXLN
27	5373-74	<0.01	*		0.8	7.6	75.7	2.73	LM GRY VFXLN STY
28	5374-75	<0.01	*		1.6	0.0	77.4	2.76	LM BRN VFXLN DOL
29	5375-76	<0.01	*	<0.01	2.0	8.5	68.2	2.79	LM BRN VFXLN DOL
30	5376-77	0.51	0.41	0.57	8.8	14.5	38.0	2.75	DOL BRN VFXLN
31	5377-78	0.97	0.97	0.72	12.2	12.5	28.6	2.85	DOL BRN VFXLN
32	5378-79	1.2	0.77	0.33	7.8	15.0	34.6	2.89	DOL BRN VFXLN SL/ANHY
33	5379-80	1.5	0.07	1.1	13.8	20.7	38.9	2.80	DOL BRN VFXLN SL/ANHY
34	5380-81	<0.01	*	0.95	9.0	4.0	87.2	2.80	DOL BRN VFXLN
35	5381-82	<0.01	*	<0.01	1.1	13.3	53.0	2.79	DOL BRN VFXLN
36	5382-83	0.01	*	0.01	7.9	2.4	90.1	2.81	DOL BRN VFXLN
37	5383-84	0.02	*	<0.01	8.4	0.0	81.5	2.81	DOL BRN VFXLN
38	5384-85	<0.01	*		0.6	16.6	33.1	2.72	LM GRY/BRN VFXLN DOL
39	5385-86	<0.01	*		0.6	0.0	61.7	2.71	LM GRY VFXLN
40	5386-87	<0.01	*		0.3	0.0	63.2	2.71	LM GRY VFXLN
41	5387-88	<0.01	*		0.4	0.0	41.3	2.71	LM GRY VFXLN
42	5388-89	0.04	*		0.6	23.1	46.2	2.71	LM GRY VFXLN
43	5389-90	0.03	*		0.7	16.7	33.4	2.71	LM GRY VFXLN
44	5390-91	<0.01	*		0.5	0.0	58.3	2.71	LM GRY VFXLN
45	5391-92	<0.01	*		0.5	16.2	32.4	2.71	LM GRY VFXLN
46	5392-93	<0.01	*		0.2	21.3	42.7	2.71	LM GRY VFXLN
47	5393-94	<0.01	*		0.1	0.0	49.3	2.71	LM GRY VFXLN
48	5394-95	<0.01	*		0.7	24.3	48.6	2.70	LM GRY VFXLN

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
 DALLAS, TEXAS

PAGE NO. 3

The Superior Oil Company

LONE MOUNTAIN CANYON 1-33	FORMATION : DESERT CREEK	DATE : 7-22-83
ANETH	DRLG. FLUID: WEM	FILE NO. : 3803-003274
SAN JUAN COUNTY	LOCATION : NW, SE SEC. 1-42S-24E	ANALYSTS : GG:DS
	STATE : UTAH	ELEVATION: 4665 KB

FULL DIAMETER ANALYSIS--BOYLE'S LAW HELIUM POROSITY

SAMP.	DEPTH	PERM. TO AIR (MD)			POR. B.L.	FLUID SATS.		GR. DNS.	DESCRIPTION
		MAX.	90 DEG.	VERTICAL		OIL	WATER		
49	5395-96	<0.01	*		0.5	11.6	46.5	2.71	LM GRY VFXLN
50	5396-97	0.29	*		1.1	0.0	37.9	2.71	LM GRY VFXLN
51	5397-98	0.10	*		0.9	0.0	42.2	2.71	LM GRY VFXLN
52	5398-99	0.10	*		0.7	21.4	42.7	2.71	LM GRY VFXLN
53	5399 -0	<0.01	*		0.9	13.8	27.6	2.71	LM GRY VFXLN
54	5400 -1	<0.01	<0.01	<0.01	1.6	0.0	32.1	2.71	LM GRY VFXLN STY
55	5401 -2	0.15	0.14	0.09	2.8	2.6	56.8	2.71	LM GRY VFXLN
56	5402 -3	745	*	0.08	6.2	5.6	44.5	2.71	LM GRY VFXLN SL/VUG OVF
57	5403 -4	99	0.78	0.23	5.4	9.7	38.8	2.75	LM GRY VFXLN VUG SL/DOL
58	5404 -5	37	22	17	10.3	8.2	32.9	2.74	LM GRY VFXLN VUG SL/DOL
59	5405 -6	4.4	2.5	0.75	8.1	5.9	51.8	2.74	LM GRY VFXLN VUG SL/DOL
60	5406 -7	12	6.8	9.4	9.3	6.1	51.6	2.71	LM GRY VFXLN VUG SL/DOL
61	5407 -8	100	*		8.5	8.9	56.1	2.70	LM GRY VFXLN VUG SL/DOL R
62	5408 -9	*	*		6.5	7.9	44.2		LM GRY VFXLN VUG SL/DOL R
63	5409-10	*	*		7.6	6.8	51.6		LM GRY VFXLN VUG SL/DOL R
64	5410-11	*	*		6.6	7.7	43.1		LM GRY VFXLN VUG SL/DOL R
65	5411-12	*	*		6.5	7.9	47.4		LM GRY VFXLN VUG SL/DOL R
66	5412-13	*	*		7.1	8.0	40.2		LM GRY VFXLN VUG SL/DOL R
67	5413-14	0.22	*	1.7	8.1	4.1	57.0	2.71	LM GRY VFXLN VUG SL/DOL
68	5414-15	2.6	2.6	1.8	8.7	7.6	59.5	2.73	LM GRY VFXLN VUG SL/DOL
69	5415-16	1.4	0.92	0.59	7.1	6.9	41.5	2.71	LM GRY VFXLN VUG
70	5416-17	30	13	0.54	7.9	12.4	45.6	2.71	LM GRY VFXLN VUG
71	5417-18	5.1	3.5	0.86	8.3	10.4	45.8	2.72	LM GRY VFXLN VUG
72	5418-19	1.3	0.83	0.66	8.0	8.4	39.2	2.73	LM GRY VFXLN VUG
73	5419-20	1.3	1.3	0.09	6.7	8.2	49.1	2.73	LM GRY VFXLN VUG

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The Superior Oil Company

LONE MOUNTAIN CANYON 1-33
 ANETH
 SAN JUAN COUNTY

FORMATION : DESERT CREEK
 DRLG. FLUID: WBM
 LOCATION : NW,SE SEC.1-42S-24E
 STATE : UTAH

DATE : 7-22-83
 FILE NO. : 3803-003274
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FULL DIAMETER ANALYSIS---BOYLE'S LAW HELIUM POROSITY

SAMP. NO.	DEPTH	PERM. TO AIR (MD)			POR. B.L.	FLUID SATS.		GR. DNS.	DESCRIPTION				
		MAX.	90 DEG.	VERTICAL		OIL	WATER						
74	5420-21	1.8	1.1	0.21	6.7	9.2	40.6	2.72	LM	GRY	VFXLN	VUG	
75	5421-22	0.49	0.19	0.12	6.6	2.8	55.8	2.72	LM	GRY	VFXLN	VUG	
76	5422-23	0.64	0.50	0.12	5.0	4.2	33.3	2.71	LM	GRY	VFXLN	VUG	
77	5423-24	27	10	0.21	5.8	7.1	38.9	2.72	LM	GRY	VFXLN	VUG	
78	5424-25	0.37	0.18	0.14	5.0	4.9	42.9	2.72	LM	GRY	VFXLN	VUG	
79	5425-26	0.54	0.38	0.13	3.4	5.1	41.1	2.72	LM	GRY	VFXLN	SL/VUG	
80	5426-27	0.11	0.10	0.05	3.4	6.2	61.9	2.72	LM	GRY	VFXLN	SL/VUG	
81	5427-28	<0.01	*		1.7	7.0	14.0	2.71	LM	GRY	VFXLN		
82	5428-29	<0.01	*		1.1	10.4	20.7	2.72	LM	GRY	VFXLN		
83	5429-30	<0.01	*		1.7	10.8	43.2	2.73	LM	GRY	VFXLN		
84	5430-31	0.01	*		1.0	0.0	39.8	2.71	LM	GRY	VFXLN		
85	5431-32	0.10	*		1.0	0.0	22.9	2.72	LM	GRY	VFXLN		
86	5432-33	0.23	*		0.6	0.0	18.6	2.73	LM	GRY	VFXLN		
87	5433-34	<0.01	*		0.4	0.0	16.2	2.75	LM	GRY	VFXLN		
88	5434-35	0.46	*		0.8	0.0	25.6	2.75	LM	GRY	VFXLN		
89	5435-36	3.3	*		0.6	10.7	21.5	2.71	LM	GRY	VFXLN		
90	5436-37	<0.01	*		0.9	24.2	48.4	2.76	LM	GRY	VFXLN	SL/ANHY	
91	5437-38	0.03	*		0.5	17.5	35.0	2.79	LM	GRY	VFXLN	SL/ANHY	
92	5438-39	0.11	*		0.8	21.8	21.8	2.74	LM	GRY	VFXLN	SL/ANHY	
93	5439-40	0.23	0.18	0.10	9.6	11.4	55.6	2.85	DOL	ERN	VFXLN	SL/ANHY	SL/CALC
94	5440-41	<0.01	*	<0.01	3.4	1.6	69.0	2.82	DOL	ERN	VFXLN	SL/ANHY	SL/CALC
95	5441-42	<0.01	*		5.7	0.0	75.6	2.83	DOL	ERN	VFXLN	SL/ANHY	
96	5442-43	<0.01	*		2.0	3.7	89.2	2.80	DOL	ERN	VFXLN	SL/ANHY	
97	5443-44	0.08	*		1.1	11.2	44.8	2.86	DOL	ERN	VFXLN	SL/ANHY	
98	5444-45	<0.01	*		2.6	0.0	28.7	2.85	DOL	ERN	VFXLN	SL/ANHY	

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The Superior Oil Company

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ANETH	DRLG. FLUID: WEM	FILE NO. : 3803-003274
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FULL DIAMETER ANALYSIS---BOYLE'S LAW HELIUM POROSITY

SAMP. NO.	DEPTH	PERM. TO AIR (MD)			POR. B.L.	FLUID SATS.		GR. DNS.	DESCRIPTION
		MAX.	90 DEG.	VERTICAL		OIL	WATER		
99	5445-46	<0.01	*		4.5	0.0	73.6	2.84	DOL BRN VFXLN SL/ANHY
100	5446-47	<0.01	*		4.3	0.0	90.4	2.81	DOL BRN VFXLN SL/ANHY
101	5447-48	<0.01	*		7.4	4.6	77.7	2.82	DOL BRN VFXLN SL/ANHY
102	5448-49	<0.01	*		6.1	1.7	66.5	2.81	DOL BRN VFXLN SL/ANHY
103	5449-50	<0.01	*		6.7	5.2	88.3	2.81	DOL BRN VFXLN SL/ANHY
104	5450-51	<0.01	*		4.0	0.0	80.1	2.84	DOL BRN VFXLN SL/ANHY OVF
105	5451-52	0.08	*		8.3	7.0	62.1	2.82	LM GRY VFXLN SL/DOL
106	5452-53	0.22	*		0.6	15.0	30.1	2.73	LM GRY VFXLN SL/DOL STY
107	5453-54	<0.01	*		1.1	13.8	27.6	2.78	LM GRY VFXLN STY
108	5454-55	0.13	*		0.9	14.6	29.3	2.75	LM GRY VFXLN SL/DOL STY
109	5455-56	0.07	*		0.7	13.8	27.7	2.76	LM GRY VFXLN SL/DOL
110	5456-57	<0.01	*		1.0	8.4	50.5	2.77	LM GRY VFXLN SL/DOL
111	5457-58	0.04	*		1.2	0.0	30.6	2.77	LM GRY VFXLN SL/DOL
112	5458-59	<0.01	*		0.3	0.0	25.2	2.74	LM GRY VFXLN SL/DOL
113	5459-60	0.13	0.11	0.06	8.9	21.4	48.1	2.80	DOL BRN VFXLN SL/SHL
114	5460-61	<0.01	*		6.7	2.7	75.9	2.78	DOL BRN VFXLN SL/SHL HVF
115	5461-62	<0.01	*		5.4	16.6	66.4	2.78	DOL BRN VFXLN SL/SHL HVF
116	5462-63	<0.01	*		5.2	43.6	43.6	2.78	DOL BRN VFXLN SL/SHL CHT HVF
117	5463-64	<0.01	*		3.2	22.1	66.4	2.78	DOL BRN VFXLN SL/SHL HVF
118	5464-65	<0.01	*		3.0	31.2	53.5	2.78	DOL BRN VFXLN SL/SHL
119	5465-66	<0.01	*		2.1	31.4	53.8	2.77	DOL BRN VFXLN SL/SHL
	5466-5477								SHL/DOL - NO ANALYSIS
	5477-5481								CORE LOSS

* SAMPLE UNSUITABLE FOR FULL DIAMETER ANALYSIS, CONV. PLUG USED
 ** FRACTURE PERMEABILITY
 OVF OPEN VERTICAL FRACTURE
 HVF HEALED VERTICAL FRACTURE
 R RUBBLE

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

THE SUPERIOR OIL COMPANY
LONE MOUNTAIN CANYON 1-33

DATE : 7-22-83
FORMATION : DESERT CREEK

FILE NO. : 3803-003274
ANALYSTS : GG:DS

*** CORE SUMMARY AVERAGES FOR 1 ZONE ***

DEPTH INTERVAL: 5324.0 TO 5466.0

FEET OF CORE ANALYZED : 119.0 FEET OF CORE INCLUDED IN AVERAGES: 119.0

-- SAMPLES FALLING WITHIN THE FOLLOWING RANGES WERE AVERAGED --

PERMEABILITY HORIZONTAL RANGE (MD.) : 0.00 TO 746.0 (UNCORRECTED FOR SLIPPAGE)
HELIUM POROSITY RANGE (%) : 0.0 TO 100.0
OIL SATURATION RANGE (%) : 0.0 TO 72.6
WATER SATURATION RANGE (%) : 10.3 TO 90.5

SHALE SAMPLES EXCLUDED FROM AVERAGES.

AVERAGES FOR DEPTH INTERVAL: 5324.0 TO 5466.0

AVERAGE PERMEABILITY (MILLIDARCIES)

ARITHMETIC PERMEABILITY : 9.6
GEOMETRIC PERMEABILITY : 0.09
HARMONIC PERMEABILITY : 0.02

PRODUCTIVE CAPACITY (MILLIDARCY-FEET)

ARITHMETIC CAPACITY : 1092.
GEOMETRIC CAPACITY : 8.6
HARMONIC CAPACITY : 1.3

AVERAGE POROSITY (PERCENT) : 4.3

AVERAGE TOTAL WATER SATURATION : 50.0
(PERCENT OF PORE SPACE)

AVERAGE RESIDUAL OILSATURATION : 10.7
(PERCENT OF PORE SPACE)

PERMEABILITY VS POROSITY

COMPANY: THE SUPERIOR OIL COMPANY
 FIELD : ANETH

WELL : LONE MOUNTAIN CANYON 1-33
 COUNTY, STATE: SAN JUAN COUNTY, UTAH

AIR PERMEABILITY : MD - HORIZONTAL (UNCORRECTED FOR SLIPPAGE)
 POROSITY : PERCENT (HELIUM)

DEPTH INTERVAL	RANGE & SYMBOL	PERMEABILITY		POROSITY		POROSITY AVERAGE	PERMEABILITY AVERAGES		
		MINIMUM	MAXIMUM	MIN.	MAX.		ARITHMETIC	HARMONIC	GEOMETRIC
5324.0 - 5466.0	1 (+)	0.000	746.0	0.0	13.9	4.3	9.6	0.02	0.09

1000.

100.

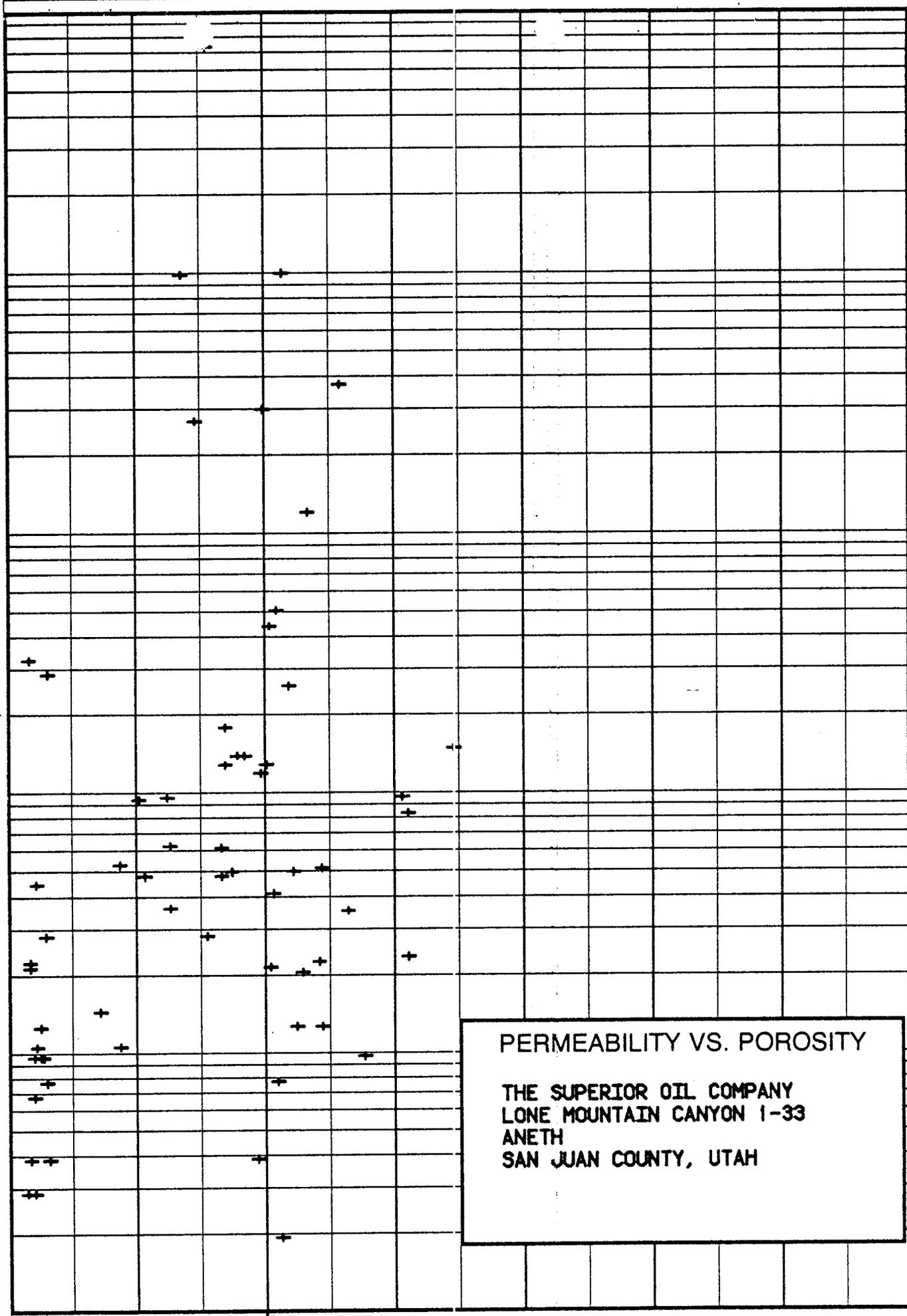
10.

1.

0.1

0.01

PERMEABILITY: MILLIDARCIES



STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

COMPANY: THE SUPERIOR OIL COMPANY
FIELD : ANETH

WELL : LONE MOUNTAIN CANYON 1-33
COUNTY, STATE: SAN JUAN COUNTY, UTAH

AIR PERMEABILITY : MD. (HORIZONTAL) RANGE USED 0.000 TO 746.
POROSITY : PERCENT (HELIUM) RANGE USED 0.0 TO 46.0

(PERMEABILITY UNCORRECTED FOR SLIPPAGE)

DEPTH LIMITS : 5324.0 - 5466.0 INTERVAL LENGTH : 142.0
FEET ANALYZED IN ZONE : 119.0 LITHOLOGY EXCLUDED : NONE

DATA SUMMARY

POROSITY AVERAGE -----	PERMEABILITY AVERAGES		
	ARITHMETIC -----	HARMONIC -----	GEOMETRIC -----
4.3	9.6	0.02	0.09

STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

COMPANY: THE SUPERIOR OIL COMPANY
 FIELD : ANETH

WELL : LONE MOUNTAIN CANYON 1-33
 COUNTY, STATE: SAN JUAN COUNTY, UTAH

GROUPING BY POROSITY RANGES

POROSITY RANGE	FEET IN RANGE	AVERAGE POROSITY	AVERAGE PERM. (GEOM.)	(ARITH)	FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (%)
0.0 - 2.0	46.0	0.8	0.025	0.185	40.4	40.4
2.0 - 4.0	13.0	2.7	0.019	0.068	11.4	51.8
4.0 - 6.0	14.0	4.8	0.142	9.2	12.3	64.0
6.0 - 8.0	16.0	7.0	0.435	49.	14.0	78.1
8.0 - 10.0	18.0	8.7	0.428	7.1	15.8	93.9
10.0 - 12.0	3.0	10.6	1.1	12.	2.6	96.5
12.0 - 14.0	4.0	12.7	0.738	0.890	3.5	100.0

TOTAL NUMBER OF FEET = 114.0

STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

COMPANY: THE SUPERIOR OIL COMPANY
 FIELD : ANETH

WELL : LONE MOUNTAIN CANYON 1-33
 COUNTY, STATE: SAN JUAN COUNTY, UTAH

GROUPING BY PERMEABILITY RANGES

PERMEABILITY RANGE	FEET IN RANGE	AVERAGE PERM. (GEOM.)	AVERAGE PERM. (ARITH)	AVERAGE POROSITY	FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (%)
0.005 - 0.010	50.0	0.009	0.009	2.4	43.9	43.9
0.010 - 0.020	2.0	0.010	0.010	4.5	1.8	45.6
0.020 - 0.039	3.0	0.026	0.027	3.2	2.6	48.2
0.039 - 0.078	4.0	0.046	0.047	2.5	3.5	51.8
0.078 - 0.156	12.0	0.108	0.110	4.1	10.5	62.3
0.156 - 0.312	8.0	0.240	0.241	6.0	7.0	69.3
0.312 - 0.625	10.0	0.463	0.467	6.4	8.8	78.1
0.625 - 1.250	7.0	0.868	0.889	7.6	6.1	84.2
1.250 - 2.500	6.0	1.4	1.5	8.3	5.3	89.5
2.500 - 5.000	4.0	3.2	3.3	4.7	3.5	93.0
5.- 10.	1.0	5.1	5.1	8.3	0.9	93.9
10.- 20.	1.0	12.	12.	9.3	0.9	94.7
20.- 40.	3.0	31.	31.	8.0	2.6	97.4
80.- 160.	2.0	99.	100.	7.0	1.8	99.1
640.- 1280.	1.0	745.	745.	6.2	0.9	100.0

TOTAL NUMBER OF FEET = 114.0

STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

COMPANY: THE SUPERIOR OIL COMPANY
 FIELD : ANETH

WELL : LONE MOUNTAIN CANYON 1-33
 COUNTY, STATE: SAN JUAN COUNTY, UTAH

POROSITY-FEET OF STORAGE CAPACITY LOST FOR SELECTED POROSITY CUT OFF

POROSITY CUT OFF	FEET LOST	CAPACITY LOST (%)	FEET REMAINING	CAPACITY REMAINING (%)	ARITH MEAN	MEDIAN
-----	-----	-----	-----	-----	-----	-----
0.0	0.0	0.0	114.0	100.0	4.3	3.7
2.0	46.0	7.6	68.0	92.4	6.7	6.9
4.0	59.0	14.8	55.0	85.2	7.6	7.7
6.0	73.0	28.5	41.0	71.5	8.6	8.5
8.0	89.0	51.3	25.0	48.7	9.6	
10.0	107.0	83.2	7.0	16.8	11.8	12.3
12.0	110.0	89.7	4.0	10.3	12.7	
14.0	114.0	100.0	0.0	0.0		

TOTAL STORAGE CAPACITY IN POROSITY-FEET = 492.5

STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

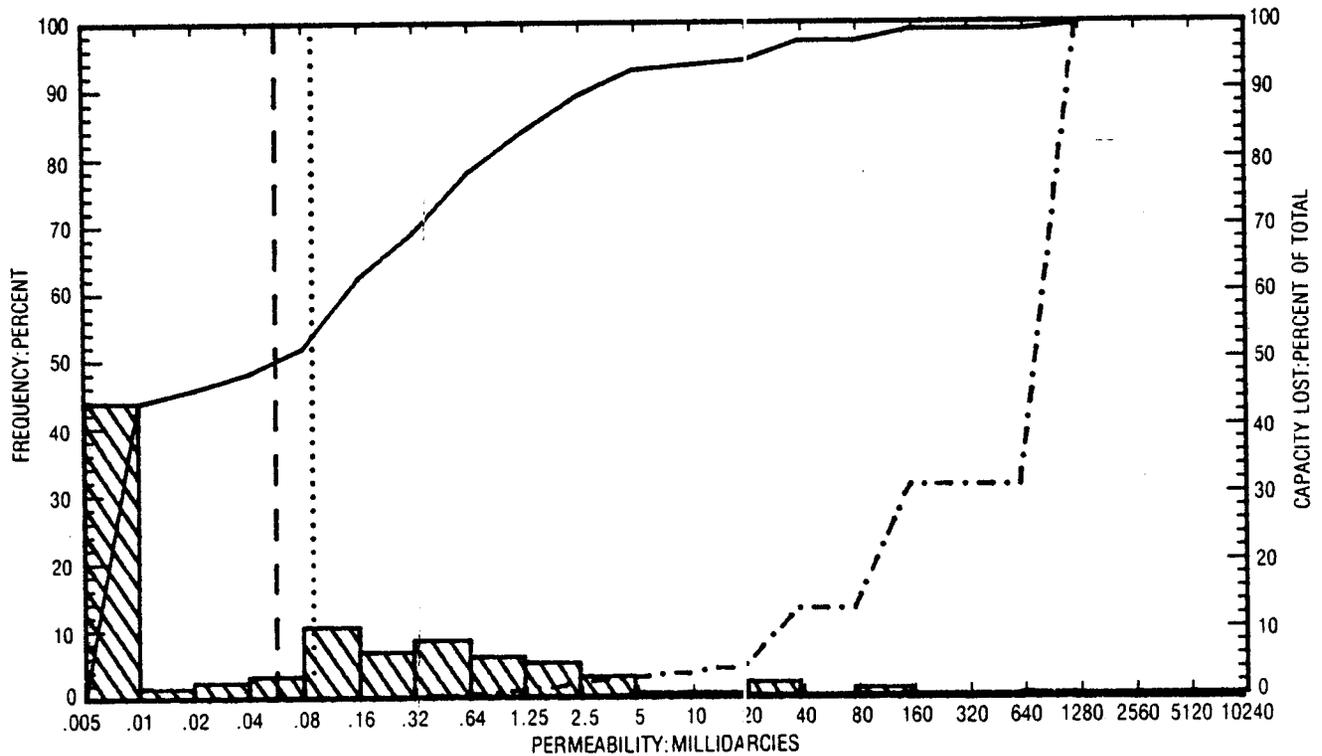
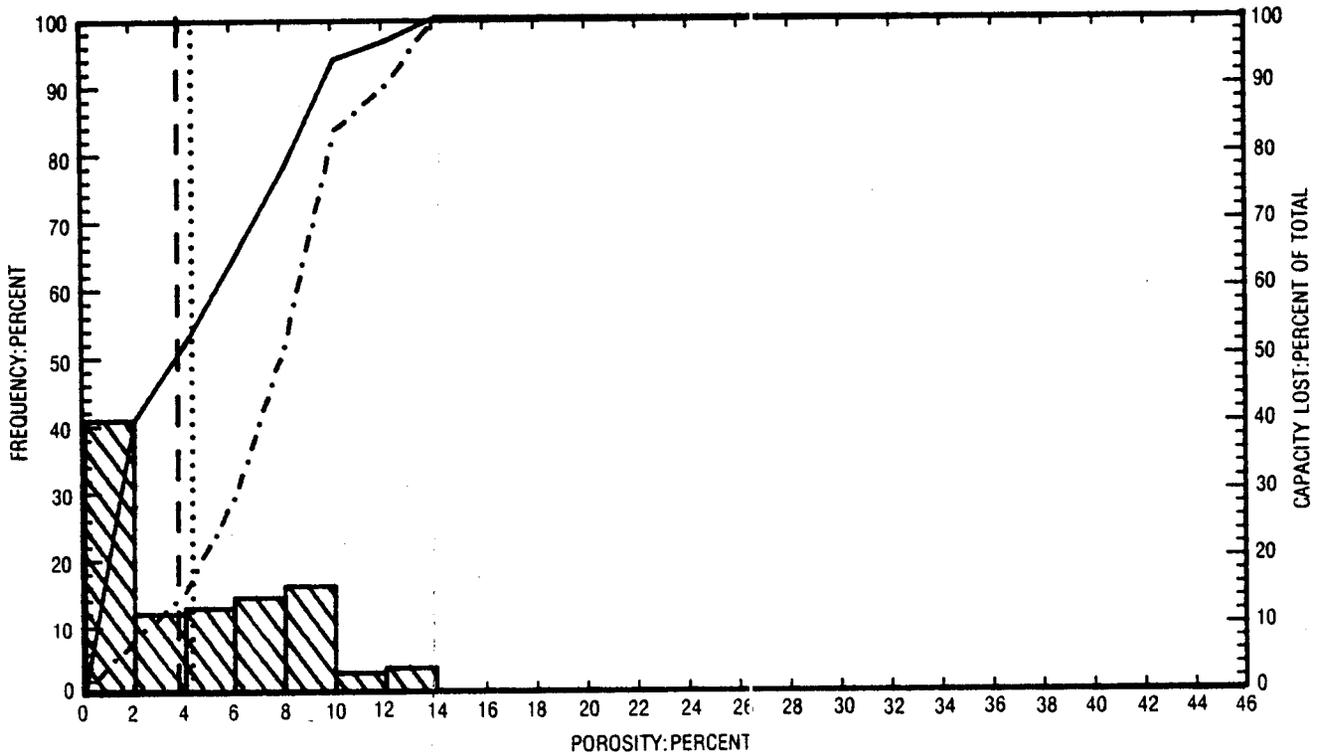
COMPANY: THE SUPERIOR OIL COMPANY
 FIELD : ANETH

WELL : LONE MOUNTAIN CANYON 1-33
 COUNTY, STATE: SAN JUAN COUNTY, UTAH

MILLIDARCY-FEET OF FLOW CAPACITY LOST FOR SELECTED PERMEABILITY CUT OFF

PERMEABILITY CUT OFF	FEET LOST	CAPACITY LOST (%)	FEET REMAINING	CAPACITY REMAINING (%)	GEOM MEAN	MEDIAN
0.005	0.0	0.0	114.0	100.0	0.09	0.06
0.010	50.0	0.0	64.0	100.0	0.52	0.38
0.020	52.0	0.0	62.0	100.0	0.59	0.41
0.039	55.0	0.1	59.0	99.9	0.69	0.46
0.070	59.0	0.1	55.0	99.9	0.84	0.53
0.156	71.0	0.2	43.0	99.8	1.48	0.88
0.312	79.0	0.4	35.0	99.6	2.25	1.32
0.625	89.0	0.8	25.0	99.2	4.24	2.36
1.250	96.0	1.4	18.0	98.6	7.86	4.20
2.500	102.0	2.2	12.0	97.8	18.37	20.00
5.	106.0	3.4	8.0	96.6	43.79	31.75
10.	107.0	3.8	7.0	96.2	59.54	35.64
20.	108.0	4.9	6.0	95.1	77.76	40.00
40.	111.0	13.5	3.0	86.5	194.65	
80.	111.0	13.5	3.0	86.5	194.65	
160.	113.0	31.8	1.0	68.2	745.00	905.10
320.	113.0	31.8	1.0	68.2	745.00	
640.	113.0	31.8	1.0	68.2	745.00	
1280.	114.0	100.0	0.0	0.0		

TOTAL FLOW CAPACITY IN MILLIDARCY-FEET (ARITHMETIC) = 1091.88



PERMEABILITY AND POROSITY HISTOGRAMS

THE SUPERIOR OIL COMPANY
 LONE MOUNTAIN CANYON 1-33
 ANETH
 SAN JUAN COUNTY, UTAH

LEGEND

- ARITHMETIC MEAN POROSITY (dotted line)
- GEOMETRIC MEAN PERMEABILITY (dotted line)
- MEDIAN VALUE ----- (dashed line)
- CUMULATIVE FREQUENCY _____ (solid line)
- CUMULATIVE CAPACITY LOST -.-.-.-.- (dash-dot line)

COMPANY THE SUPERIOR OIL COMPANY

FILE NO. 3883-883274

WELL LONE MOUNTAIN CANYON 1-33

DATE 7-22-63

FIELD ANETH

FORMATION DESERT CREEK

ELEV. 4885 KB

COUNTY SAN JUAN STATE UTAH

DRLG. FLD. WDM

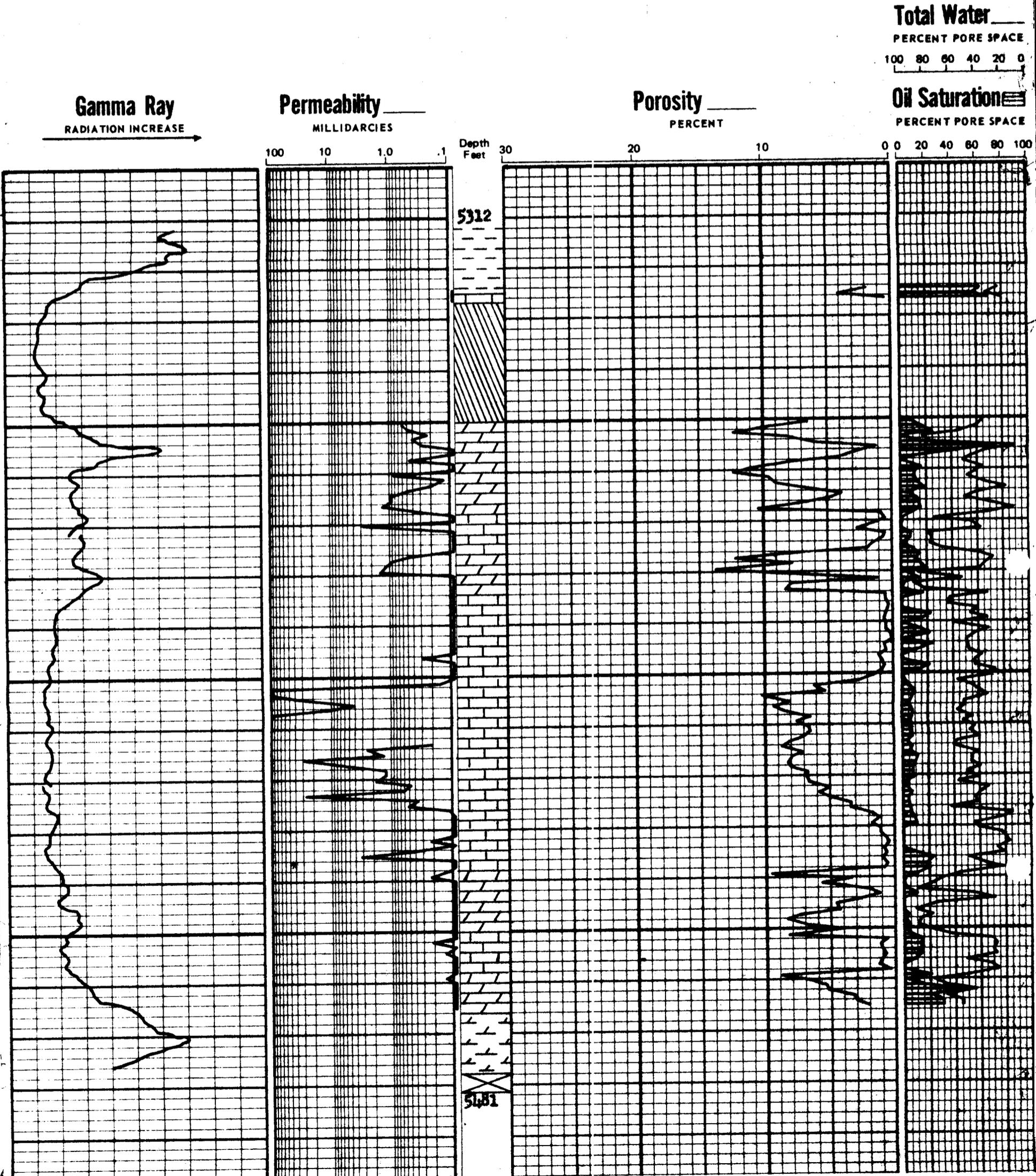
CORES _____

LOCATION NW, SE SEC. 1-423-24E

CORRELATION COREGRAPH

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VERTICAL SCALE: 5" = 100



5

FLUID

1



CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

COMPANY THE SUPERIOR OIL COMPANY

FILE NO. 2000-00074

WELL LONE MOUNTAIN CANYON 1-00

DATE 7-12-00

ENGRS. 00-00

FIELD ANETH

FORMATION DEWERT CREEK

ELEV. 4005 13

COUNTY SAN JUAN

STATE UTAH

DRLG. FLD. W-1

CORES

CoRes Log

CORE and RESISTIVITY EVALUATION

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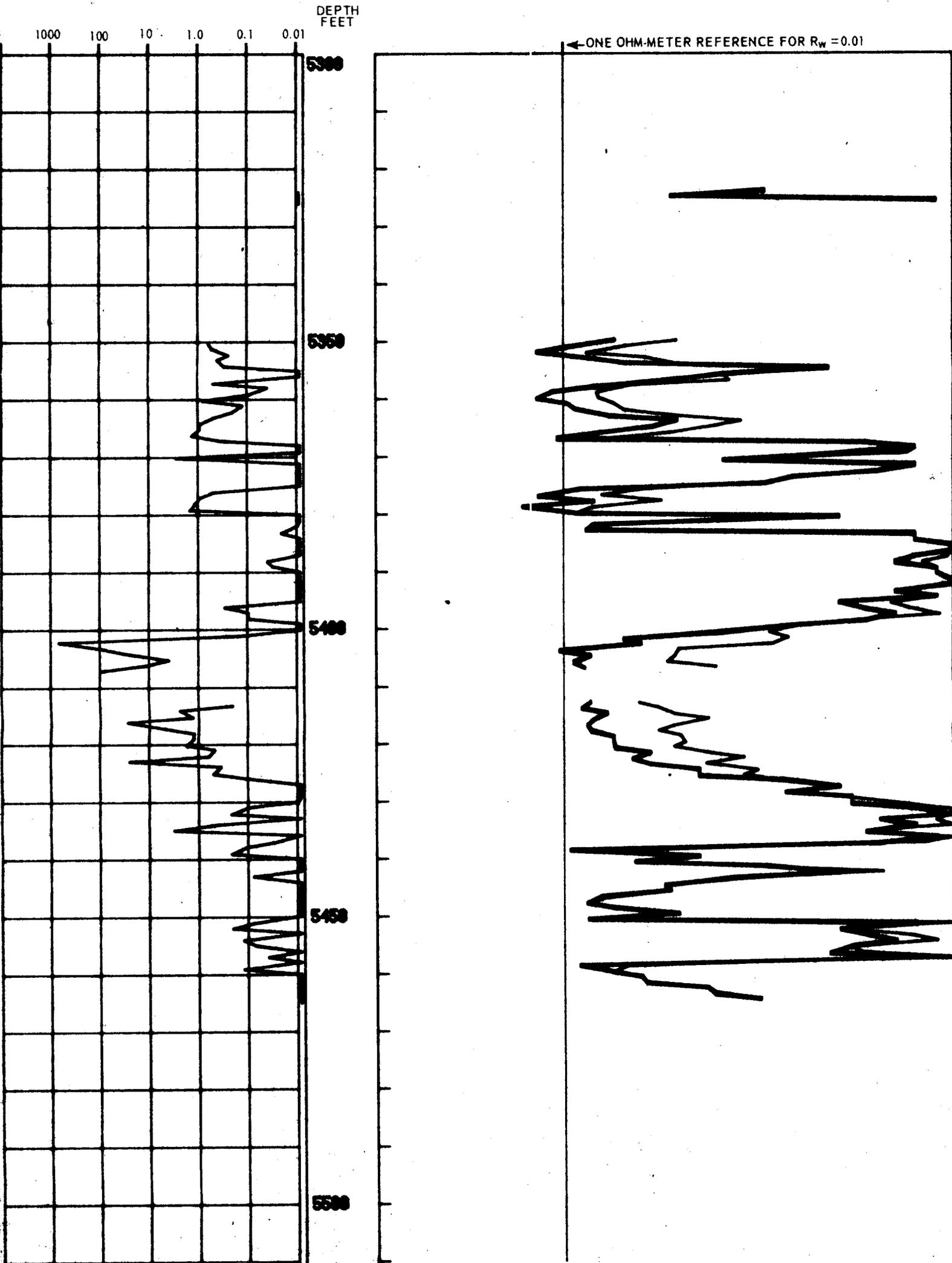
RESISTIVITY PARAMETERS: $a = 1.00$ $m = 2.00$ $n = 2.00$. Depths 5324.0 to 5400.0
 $a =$ $m =$ $n =$. Depths to

PERMEABILITY
MILLIDARCIES

CORE ANALYSIS CALCULATED RESISTIVITY

R_0 = OHM-METERS AT 100% S_w

R_{mp} = OHM-METERS AT CRITICAL S_w



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
SUPERIOR OIL COMPANY

3. ADDRESS OF OPERATOR
P.O. DRAWER "G", CORTEZ, COLORADO 81321

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1623' FSL, 1959' FEL, NWSE SEC. 1
AT TOP PROD. INTERVAL: Same
AT TOTAL DEPTH: Same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

- TEST WATER SHUT-OFF
- FRACTURE TREAT
- SHOOT OR ACIDIZE
- REPAIR WELL
- PULL OR ALTER CASING
- MULTIPLE COMPLETE
- CHANGE ZONES
- ABANDON*
- (other)

SUBSEQUENT REPORT OF:

**DIVISION OF
GAS & MINING**

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

5. LEASE
N00-C-14-5119

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
NAVAJO

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
LONE MOUNTAIN CANYON

9. WELL NO.
#1-33

10. FIELD OR WILDCAT NAME
LONE MOUNTAIN CANYON

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
SECTION 1, T42S, R24E

12. COUNTY OR PARISH | 13. STATE
SAN JUAN | UTAH

14. API NO.
43-037-30908

15. ELEVATIONS (SHOW DF, KDB, AND WD)
4645.8'

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

8-19-83: Superior Oil first produced saleable oil from the subject well.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED T. Greg Merriam TITLE Production Engineer DATE 8-23-83

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY: _____

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
SUPERIOR OIL COMPANY

3. ADDRESS OF OPERATOR
P. O. DRAWER "G", CORTEZ, COLORADO 81321

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1623' FSL, 1959' FEL, NWSE SEC. 1
AT TOP PROD. INTERVAL: Same
AT TOTAL DEPTH: Same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF <input type="checkbox"/>	<input checked="" type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE <input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES <input type="checkbox"/>	<input type="checkbox"/>
ABANDON* <input type="checkbox"/>	<input type="checkbox"/>
(other) <input type="checkbox"/>	<input type="checkbox"/>

5. LEASE
N00-C-14-5119

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
NAVAJO

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
LONE MOUNTAIN CANYON

9. WELL NO.
#1-33

10. FIELD OR WILDCAT NAME
LONE MOUNTAIN CANYON

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
SEC. 1, T42S, R24E

12. COUNTY OR PARISH
SAN JUAN

13. STATE
UTAH

14. API NO.
43-037-30908

15. ELEVATIONS (SHOW DF, KDB, AND WD)
KB: 4665', GL: 4652'

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

7-6-83: Spudded subject well at 5:00 A.M. w/ Arapahoe #2 rig.

7-6-83: Drilled 12-1/4" hole - opened to 17-1/2". Ran 13-3/8", 54.5#, J-55, ST&C conductor csg to 114'. Cmt'd to surface w/ 145 sx (174 cu.ft.) Class 'B' cmt w/2% CaCl. Circulated approximately 6 bbls: good cmt - annulus stayed full.

7-8-83: Drilled 12-1/4" hole to 1318'. Ran the following surface csg:
 GL - 32': 9-5/8", 40#, S-95, LT&C
 32'-642': 9-5/8", 43.5#, P-110, LT&C
 642'-1318': 9-5/8", 43.5#, S-95, LT&C
 Cmt'd w/ 445 sx (685 cu. ft) of Lite cmt + 10#/sx Gilsonite + 0.4% Econolite.
 Followd w/ 150 sx (175 cu.ft) Class 'B' cmt + 2% CaCl. Circultaed 30 bbls good cmt.- annulus stayed full.

Cont. on reverse side.

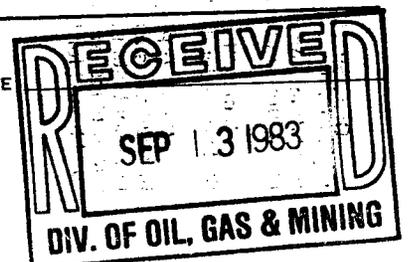
Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED T. Greg Merrion TITLE Production Engineer DATE 9-9-83

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:



Instructions

General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 17: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

GPO : 1976 O - 214-148

7-26-83: Drilled 7-7/8" hole to 5519' - Ran the following production casing.

- GL - 2925' : 5-1/2", 14#, K-55, ST&C
- 2925' - 5114' : 5-1/2", 15.5#, K-55, LT&C
- 5114' - 5519' : 5-1/2", 15.5#, K-55, ST&C

Cmt'd w/ 503 sx (548 cu.ft) Class 'H' cmt w/ 5#/sx salt + 0.5% CRF2 (friction reducer) + 0.5% Halad 9 (fluid loss additive)

Released Arapahoe Rig #2 at 9:00 A.M. on 7-27-83.

FILE IN QUADRUPLICATE
FORM OGC-8-X

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
1588 West North Temple
Salt Lake City, Utah 84116

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number: LONE MOUNTAIN CANYON #1-33
Operator: SUPERIOR OIL COMPANY Address: P.O. DRAWER 'G', CORTEZ, COLORADO
Contractor: ARAPAHOE RIG NO. 2 Address: FARMINGTON, NEW MEXICO 87401
Location NW 1/4 SE 1/4; Sec. 1 T. 42 N. R. 24 E; SAN JUAN County
S W

Water Sands:

	<u>Depth:</u>	<u>Volume:</u>	<u>Quality:</u>
	From- To-	Flow Rate or Head	Fresh or Salty
1.	214	1"	
2.	510	2"	
3.	705	3" approx 115 bbl p/hr	Chloride 3000, Calcium 80
4.			
5.			

(Continue on Reverse Side if Necessary)

Formation Tops:

Remarks:

- NOTE: (a) Upon diminishing supply of forms, please inform this office.
(b) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure.
(c) If a water analysis has been made of the above reported zone, please forward a copy along with this form.

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

10

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other

b. TYPE OF COMPLETION:

NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RESVR. Other

2. NAME OF OPERATOR

SUPERIOR OIL COMPANY

3. ADDRESS OF OPERATOR

P.O. DRAWER 'G', CORTEZ, COLORADO 81321

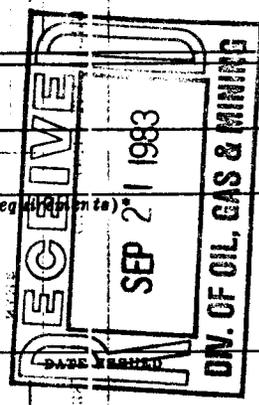
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)

At surface 1623' FSL, 1959' FEL, NWSE SEC. 1

At top prod. interval reported below Same

At total depth Same

14. PERMIT NO.



5. LEASE DESIGNATION AND SERIAL NO.

N00-C-14-5119

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NAVAJO

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

LONE MOUNTAIN CANYON

9. WELL NO.

#1-33

10. FIELD AND POOL, OR WILDCAT

LONE MOUNTAIN CANYON

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

SEC. 1, T42S, R24E

12. COUNTY OR PARISH
SAN JUAN

13. STATE
UTAH

15. DATE SPUNDED

7-6-83

16. DATE T.D. REACHED

7-26-83

17. DATE COMPL. (Ready to prod.)

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*

GL: 4652' KB: 4665'

19. ELEV. CASINGHEAD

4652'

20. TOTAL DEPTH, MD & TVD

5519'

21. PLUG, BACK T.D., MD & TVD

5236'

22. IF MULTIPLE COMPL., HOW MANY*

23. INTERVALS DRILLED BY

ROTARY TOOLS
GL-5519

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

TEMPORARILY ABANDONED

25. WAS DIRECTIONAL SURVEY MADE
NO

26. TYPE ELECTRIC AND OTHER LOGS RUN

GR-BCS, GR Spectrometry, DIL-SFL, CNL-EDC, GR-CBL-VDL-CCL

27. WAS WELL CORED
YES

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	54.5#	114'	17-1/2"	145 Sx (174 ft ³) CL 'B'	
9-5/8"	40#, 43.5#	1318'	12-1/4"	445 Sx (685 ft ³) Lite	
5-1/2"	14#, 15.5#	5519'	7-7/8"	503 SX (548 ft ³) CL 'H'	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

DESERT CREEK PERFS:
5349'-66', 5473'-79' (2JSPF)
5400'-22' (2JSPF)
5438'-52' (2JSPF)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5438'-52'	2000 gal 28% HCL
5349'-79'	4000 gal 28% HCL / 150Sx CL 'B'
5349'-66'	1625 gal 28% HCL / 75 Sx CL 'B'

Cmt
Cmt

33.* PRODUCTION

DATE FIRST PRODUCTION: _____ PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump): **TEMPORARILY ABANDONED** WELL STATUS (Producing or shut-in): **SHUT IN**

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.): _____ TEST WITNESSED BY: _____

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.
SIGNED: T. Greg Merrion TITLE: PRODUCTION ENGINEER DATE: 9-9-83

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and-log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formations and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.

37. SUMMARY OF POROUS ZONES:
 SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF: CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

NAME	MEAS. DEPTH	TOP	DESCRIPTION, CONTENTS, ETC.	TRUE VERT. DEPTH
CHINLE	1375'		CORED INTERVALS: #1 5312' - 5372' (60') #2 5372' - 5421' (49') #3 5421' - 5477' (56')	
SHINARUMP	2100'			
MOENKOPI	2190'			
DE CHELLY	2334'			
ORGAN ROCK	2607'			
HERMOSA	4310'			
ISMAY	5148'			
L. ISMAY	5266'			
GOTHIC	5300'			
DESERT CK	5318'			
CHIMNEY RK	4472'			

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUNDRY NOTICES AND REPORTS ON WELLS;

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
SUPERIOR OIL COMPANY

3. ADDRESS OF OPERATOR
P. O. DRAWER "G", CORTEZ, COLORADO 81321

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1623' FSL, 1959' FEL
AT TOP PROD. INTERVAL: Same
AT TOTAL DEPTH: Same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOT CE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>		<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>		<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>		<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>		<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>		<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>		<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>		<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>		<input checked="" type="checkbox"/>
(other)			TA

5. LEASE NOO-C-14-5119	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME NAVAJO	
7. UNIT AGREEMENT NAME	
8. FARM OR LEASE NAME LONE MOUNTAIN CANYON	
9. WELL NO. #1-33	
10. FIELD OR WILDCAT NAME LONE MOUNTAIN CANYON	
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SEC. 1, T42S, R24E	
12. COUNTY OR PARISH SAN JUAN	13. STATE UTAH
14. API NO. 43-037-30908	
15. ELEVATIONS (SHOW DF, KDB, AND WD) KB: 4665' BL: 4652'	

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

9-8-83: Set CIBP at 5320'. Pressure tested plug to 1000# - held OK. RIH w/ 2-7/8" tbg. Spotted 10sx (12 cu.ft) cement on top of plug. Circulate hole full of inhibited fresh water. POH w/ tbg. SI well. Cleaned location.

**APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING**
DATE: _____
BY: _____

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED T. Greg Merrion TITLE Petroleum Engineer DATE 9-30-83

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
SUPERIOR OIL COMPANY

3. ADDRESS OF OPERATOR
P. O. DRAWER "G", CORTEZ, COLORADO 81321

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1623' FSL, 1959' FEL
AT TOP PROD. INTERVAL: Same
AT TOTAL DEPTH: Same

5. LEASE
NOO-C-14-5119 ✓

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
NAVAJO

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
LONE MOUNTAIN CANYON

9. WELL NO.
#1-33

10. FIELD OR WILDCAT NAME
LONE MOUNTAIN CANYON

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
SEC. 1, T42S, R24E

12. COUNTY OR PARISH
SAN JUAN

13. STATE
UTAH

14. API NO.
43-037-30908

15. ELEVATIONS (SHOW DF, KDB, AND WD)
KB: 4665' GL: 4652'

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	<input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>	<input type="checkbox"/>
ABANDON* <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(other)		

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Approval is requested to temporarily abandon the subject well as follows:

1. Set CIBP at 5320'.
2. Spot 10 sx cement on top of CIBP.
3. SI well and clean location.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Greg Merrion TITLE Petroleum Engineer DATE 9-30-83

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

SUPERIOR ©

Frank
Conie
OCT 17 1983

**DIVISION OF
OIL, GAS & MINING**

October 13, 1983

State of Utah
Department of Natural Resources
Division of Oil, Gas & Mining
4241 State Office Building
Salt Lake City, Utah 84114

RE: Distribution of Oil & Gas
Lease Sale Notices

Gentlemen:

Please consider this letter as our official notice of address change, effective November 1, 1983 and our request that Superior Oil be maintained on your mailing list to receive notices regarding any forthcoming sales of oil and gas leases on lands administered by you.

We will appreciate your sending notices to the following address:

The Superior Oil Company
600 17th Street
Suite 1500
Denver, Colorado 80202
ATTN: Land Department

Thank you very much.

Very truly yours,

THE SUPERIOR OIL COMPANY

Jed W. Lemmons/cbb

Jed W. Lemmons
Division Land Manager

JWL/cbb

The Superior Oil Company

Denver Division

1860 Lincoln St., Suite 800,
Lincoln Tower Building, Denver, CO 80295
(303) 863-2600, Twx: 910 931 2539



STATE OF UTAH
 NATURAL RESOURCES
 Oil, Gas & Mining

Scott M. Matheson, Governor
 Temple A. Reynolds, Executive Director
 Dr. G. A. (Jim) Shirazi, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

December 8, 1983

Superior Oil Company
 P.O. Drawer 'G'
 Cortez, Colorado 81321

RE: Well No. Lone Mountain Cny. #1-33
 1623' FSL, 1959' FEL NW SE
 Sec. 1, T. 42S, R. 24E.
 San Juan County, Utah

Gentlemen:

According to our records, a "Well Completion Report" filed with this office September 9, 1983 from the above referred to well, indicates the following electric logs were run: GR-BCA, GR SPECTROMETRY, DIL-SFL, CNL-FDC, GR-CBL-VDL-OCL. As of todays date, this office has not received this log: GR-CBL-VCL-OCL.

Rule C-5, General Rules and Regulations and Rules of Practice and Procedure, requires that a well log shall be filed with the Commission together with a copy of the electric and radioactivity logs.

We will be happy to acknowledge receipt of your response to this notice if you will include an extra copy of the transmittal letter with a place for our signature, and a self addressed envelope for the return. Such acknowledgement should avoid unnecessary mailing of a second notice from our agency.

Your prompt attention to the above will be greatly appreciated.

In reference to the above letter, enclosed is the log! T. Matheson

Respectfully,

Claudia Jones

Claudia Jones
 Well Records Specialist

CJ/cj

RECEIVED
 DEC 10 1983

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLI
(Other instructions
verse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

3

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.
N00-C-14-20-5119

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NAVAJO

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

LONE MT. CANYON

9. WELL NO.

#1-33

10. FIELD AND POOL, OR WILDCAT

LONE MT. CANYON

11. SEC., T., R., N., OR BLK. AND SURVEY OR AREA

Sec. 1, T42S, R24E SLM

12. COUNTY OR PARISH 13. STATE

SAN JUAN UTAH

1. OIL WELL GAS WELL OTHER TEMPORARILY ABANDONED

RECEIVED

2. NAME OF OPERATOR
SUPERIOR OIL COMPANY

MAY 20 1985

3. ADDRESS OF OPERATOR
P. O. DRAWER 'G', CORTEZ, COLORADO 81321

4. LOCATION OF WELL (Report location clearly and in accordance with any State regulations.
See also space 17 below.)
At surface

DIVISION OF OIL
GAS & MINING

1623' FSL, 1959' FEL Sec. 1 NW-SE

14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, OR, etc.)
GR: 4652'

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF
FRACTURE TREAT
SHOOT OR ACIDIZE
REPAIR WELL
(Other) Extend TA Status

PULL OR ALTER CASING
MULTIPLE COMPLETE
ABANDON*
CHANGE PLANE

SUBSEQUENT REPORT OF:

WATER SHUT-OFF
FRACTURE TREATMENT
SHOOTING OR ACIDIZING
(Other)

REPAIRING WELL
ALTERING CASING
ABANDONMENT*

NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Approval is requested to extend Temporarily Abandoned status for the subject well. Superior Oil Company is presently evaluating the well as a water injection well for secondary recovery. The following steps would be taken should waterflooding prove beneficial:

- 1. Knock out CIBP @ 5320'.
- 2. RIH w/ 5-1/2" x 2-7/8" plastic coated packer and 5300' 2-7/8" plastic coated tubing.
- 3. Pump 90 bbls inhibited fresh water. Set packer @ 5300 +/- RDMO

ACCEPTED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

Federal approval of this action
is required before commencing
operations

DATE: 5/30/85
BY: John R. Baga

Approval applies to extension of TA status only.

18. I hereby certify that the foregoing is true and correct

SIGNED James S. Andres TITLE Engineer DATE 5-14-85

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

TA

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO. **ND0-C-14-20-5119**
6. IF INDIAN, ALLOTTEE OR TRIBE NAME **NAVAJO 032004**
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME **Lone Mtn Canyon**
9. WELL NO. **1-33**
10. FIELD AND POOL, OR WILDCAT **Lone Mtn. Canyon**
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA **Sec 1, T42S, R24E, SLM**
12. COUNTY OR PARISH **San Juan** 13. STATE **Utah.**

1. OIL WELL GAS WELL OTHER **Temporarily Abandoned**
2. NAME OF OPERATOR **Mobil Oil Corporation (Superior)**
3. ADDRESS OF OPERATOR **P.O. Drawer G. Cortez Co 81321**
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface **1623' FSL, 1959' FEL**
14. PERMIT NO. **43-037-30908** 15. ELEVATIONS (Show whether DF, RT, GR, etc.) **GR: 4652'**

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

(Other) **Extension of TA Status**

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Due to current economic conditions within the industry the subject well has not been evaluated as an injector in a possible water-flood. Mobil Oil Corporation requests extension of the current temporarily abandoned status until economic conditions improve and a water-flood can be justified.

RECEIVED
MAR 12 1987
DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct
SIGNED [Signature] TITLE Sr Staff Op Engr DATE 3.6.87
(This space for Federal or State office use)

APPROVED BY _____ TITLE _____
CONDITIONS OF APPROVAL, IF ANY:
Federal approval of this action is required before commencing operations.
*See Instructions on Reverse Side

ACCEPTED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 3-17-87
BY: [Signature]

TA

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

- 1. Oil Well Gas Well Other: Temporarily Abandoned
- 2. Name of Operator
MOBIL OIL CORPORATION
- 3. Address of Operator
P. O. DRAWER 6, CORTEZ, CO. 81321
- 4. Location of Well
1623' FSL, 1959' FEL
- 5. Lease Designation & Serial No.
N00-C-14-20-5119
- 6. If Indian, Allottee or Tribe Name
NAVAJO
- 7. Unit Agreement Name
-
- 8. Farm or Lease Name
Lone Mtn Canyon
- 9. Well No.
1-33
- 10. Field and Pool, or Wildcat
Lone Mtn Canyon
- 11. Sec. T,R,M or BLK and Survey or Area
Section 1, T42S, R24E SLM
- 12. County, Parish
San Juan
- 13. State
Utah
- 14. Permit No.
- 15. Elevations (DF, RT, GR)
GR; 4652'

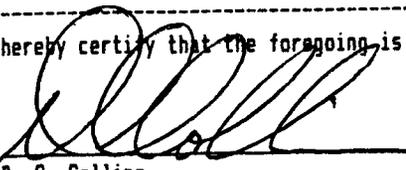
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

Notice of Intention To:		Subsequent Report of:	
Test Water Shut-off <input type="checkbox"/>	Pull or Alter Casing <input type="checkbox"/>	Water Shut-off <input type="checkbox"/>	Repairing Well <input type="checkbox"/>
Fracture Treat <input type="checkbox"/>	Multiple Complete <input type="checkbox"/>	Fracture Treatment <input type="checkbox"/>	Altering Casing <input type="checkbox"/>
Shoot or Acidize <input type="checkbox"/>	Abandonment <input type="checkbox"/>	Shooting/Acidizing <input type="checkbox"/>	Abandonment <input type="checkbox"/>
Repair Well <input type="checkbox"/>	Change Plans <input type="checkbox"/>	(Other) <input type="checkbox"/>	
(Other) Extension of TA Status <input type="checkbox"/>	/XX/	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log Form.)	

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zone pertinent to this work) *

Due to the current economic conditions within the industry the subject well has not been evaluated as an injector in a possible waterflood. Mobil Oil Corporation requests an extension of the current temporarily abandoned status until economic conditions improve and a waterflood can be justified.

18. I hereby certify that the foregoing is true and correct

Signed:  Title: Sr Staff Operations Engr Date: April 18, 1988
D. C. Collins

(This space for Federal or State office use)
APPROVED BY _____ TITLE: _____ DATE: _____
CONDITIONS OF APPROVAL, IF ANY:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

5. Lease Designation &
Serial No.
N00-C-14-20-5119
6. If Indian, Allottee or Tribe Name
NAVAJO

1. Oil Well Gas Well Other: Temporarily Abandoned

7. Unit Agreement Name

2. Name of Operator
MOBIL OIL CORPORATION

8. Farm or Lease Name
Lone Mtn Canyon

3. Address of Operator
P. O. DRAWER 6, CORTEZ, CO. 81301

RECEIVED
JUN 12 1989

Well No.
1-33

4. Location of Well
1623' FSL, 1959' FEL

9. Field and Pool, or Wildcat
Lone Mtn Canyon

11. Sec. T,R,M or BLK and
Survey or Area

Section 1, T42S, R24E SLM

14. Permit No. 15. Elevations (DF, RT, GR)
43-037-30908 GR; 4652'

DIVISION OF
OIL, GAS & MINING

12. County, Parish 13. State
San Juan Utah

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

Notice of Intention To:		Subsequent Report of:	
Test Water Shut-off <input type="checkbox"/>	Pull or Alter Casing <input type="checkbox"/>	Water Shut-off <input type="checkbox"/>	Repairing Well <input type="checkbox"/>
Fracture Treat <input type="checkbox"/>	Multiple Complete <input type="checkbox"/>	Fracture Treatment <input type="checkbox"/>	Altering Casing <input type="checkbox"/>
Shoot or Acidize <input type="checkbox"/>	Abandon <input type="checkbox"/>	Shooting/Acidizing <input type="checkbox"/>	Abandonment <input type="checkbox"/>
Repair Well <input type="checkbox"/>	Change Plans <input type="checkbox"/>	(Other) <input type="checkbox"/>	
(Other) Extension of A Status <input checked="" type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log Form.)	

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zone pertinent to this work) †

This property has been offered for sale. Mobil Oil Corporation requests a six month extension of the existing TA status until the pending sale can be concluded.

18. I hereby certify that the foregoing is true and correct

Signed: D. C. Collins Title: Sr Staff Operations Engr Date: June 8, 1989
D. C. Collins (303) 565-2209

(This space for Federal or State office use)

APPROVED BY _____ TITLE: _____ DATE: _____

CONDITIONS OF APPROVAL, IF ANY:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions re-
verse side)

Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT--" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	3. LEASE DESIGNATION AND SERIAL NO. N00-C-14-20-5119
2. NAME OF OPERATOR A.P.A. Development Inc.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo
3. ADDRESS OF OPERATOR P.O. Box 215, Cortez, CO 81321	7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface	8. FARM OR LEASE NAME Lone Mtn. Canyon
14. PERMIT NO. 43-027-30908 TA	9. WELL NO. 1-33
15. ELEVATIONS (Show whether DF, RT, CR, etc.)	10. FIELD AND POOL, OR WILDCAT
	11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA Sec. 1 T42S R24E
	12. COUNTY OR PARISH San Juan
	13. STATE UT

18. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>

SUBSEQUENT REPORT OF:

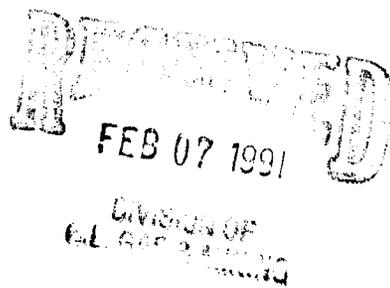
WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <input type="checkbox"/>	

(Other) Continue T&A

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Would like to continue T&A status. Plan to do M.I.T. in mid-April.



18. I hereby certify that the foregoing is true and correct

SIGNED Patricia B. Woolley TITLE Field Supervisor DATE 1/29/91

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

(Other instructions on reverse side)

Expires August 31, 1987

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

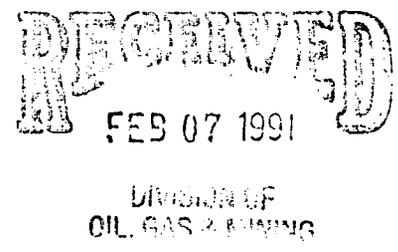
1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. N00-C-14-20-5119
2. NAME OF OPERATOR A.P.A. Development Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo
3. ADDRESS OF OPERATOR P.O. Box 215, Cortez, CO 81321		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface		8. FARM OR LEASE NAME Lone Mtn. Canyon
14. PERMIT NO. 42-027-20908		9. WELL NO. 1-33
15. ELEVATIONS (Show whether DF, RT, OR, etc.)		10. FIELD AND POOL, OR WILDCAT
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 1 T41S R24F
		12. COUNTY OR PARISH San Juan
		13. STATE UT

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	
(Other) Change of Operator		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS: (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Change of Operator from Mobil to A.P.A. Development Inc.



18. I hereby certify that the foregoing is true and correct

SIGNED Pat B. Bosley TITLE Supervisor DATE 1/21/91

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

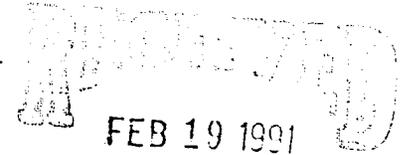
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Mobil Oil Corporation

P.O. BOX 219031
DALLAS, TEXAS 75221-9031

February 15, 1991



Utah Oil & Gas
Att: Steve Schneider
355 West N Temple Suite 350
Salt Lake City UT 84180

DIVISION OF:
OIL, GAS & MINING

CHANGE OF OPERATOR

(LONE MOUNTAIN CANYON)

API NO. 1-11 4303731083 - 42S, 24E, Sec. 1
1-33 4303730908 - 42S, 24E, Sec. 1
1-44 4303730847 - 42S, 24E, Sec. 1
36-34 4303730864 - 42S, 24E, Sec. 36

This letter is to inform Utah Oil & Gas that MEPNA is no longer the operator of Lone Mountain Canyon. These properties were sold to APA Development effective date June 1, 1989 closing date December 6, 1989. Our report still indicate MEPNA as operator. To ensure accuracy please send newly corrected Oil and Gas Monthly Reports to:

Mobil Oil Corporation
Hobbs Asset Team
Att: Tangela Shavers
P O Box 219031
Dallas TX 75221-9031

Any questions call (214)658-2729. Your cooperation is well appreciated.

Sincerely,

TRS:llc

T. R. Shavers
Hobbs Asset Team Accounting
Dallas Accounting Center

A7472360

1- LCR	<input checked="" type="checkbox"/>
2- DPT/TS	<input checked="" type="checkbox"/>
3- VLC	<input checked="" type="checkbox"/>
4- RJF	<input checked="" type="checkbox"/>
5- RWM	<input checked="" type="checkbox"/>
6- LCR	<input checked="" type="checkbox"/>

Attach all documentation received by the division regarding this change.
 Initial each listed item when completed. Write N/A if item is not applicable.

- Change of Operator (well sold) Designation of Agent
 Designation of Operator Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 6-1-89)

TO (new operator) APA DEVELOPMENT, INC.
 (address) P. O. BOX 215
CORTEZ, CO 81321
 phone (303) 565-8245
 account no. N7185

FROM (former operator) M E P N A
 (address) P. O. BOX 219031
DALLAS, TX 75221-9031
 phone (214) 658-2690
 account no. N7370

Well(s) (attach additional page if needed):

Name: <u>LONE MTN CYN 1-11/DSCR</u>	API: <u>4303731083</u>	Entity: <u>6030</u>	Sec <u>1</u> Twp <u>42S</u> Rng <u>24E</u>	Lease Type: <u>INDIAN</u>
Name: <u>LONE MTN CYN 1-33/TA</u>	API: <u>4303730908</u>	Entity: <u>11175</u>	Sec <u>1</u> Twp <u>42S</u> Rng <u>24E</u>	Lease Type: <u>INDIAN</u>
Name: <u>LONE MTN CYN 1-44/DSCR</u>	API: <u>4303730847</u>	Entity: <u>6030</u>	Sec <u>1</u> Twp <u>42S</u> Rng <u>24E</u>	Lease Type: <u>INDIAN</u>
Name: <u>LONE MTN CYN 36-34/DSCR</u>	API: <u>4303730864</u>	Entity: <u>5985</u>	Sec <u>36</u> Twp <u>41S</u> Rng <u>24E</u>	Lease Type: <u>INDIAN</u>
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____

OPERATOR CHANGE DOCUMENTATION

- 1 (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). (Reg. Amended Letter 2-13-91) (Rec. 2-19-91)
- 2 (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). (Reg. 2-5-91 by Steve S.) (Rec. 2-7-91)
- 3 The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) yes If yes, show company file number: #138468.
- 4 (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.
- 5 Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (3-14-91)
- 6 Cardex file has been updated for each well listed above.
- 7 Well file labels have been updated for each well listed above.
- 8 Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (3-14-91)
- 9 A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) NO (If entity assignments were changed, attach copies of Form 5, Entity Action Form).
- 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only)

- 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
- 2. A copy of this form has been placed in the new and former operators' bond files.
- 3. The former operator has requested a release of liability from their bond (yes/no) _____. Today's date _____ 19____. If yes, division response was made by letter dated _____ 19____.

INTEREST OWNER NOTIFICATION RESPONSIBILITY

- 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated _____ 19____, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- 2. Copies of documents have been sent to State Lands for changes involving State leases.

INDEXING
All attachments to this form have been microfilmed. Date: March 20 1991.

- 1. Copies of all attachments to this form have been filed in each well file.
- 2. The original of this form and the original attachments have been filed in the Operator Change file.

REMARKS

910311 Errol Beecher / Btm Farmington N.M. "Says that the Navajo Tribe does not want any information regarding their leases, particularly the state, given out without their consent. Says that if we can obtain that consent from the Navajo Tribe they will be happy to give out that info." I asked if he had anything in writing to that effect, and if he could mail that info. to our office. "He said he would check."

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

RECEIVED

JAN 11 1993

DIVISION OF
OIL, GAS & MINING

5. Lease Designation and Serial Number:
NOO C-14-20-5119

6. If Indian, Allottee or Tribe Name:
Navajo

7. Unit Agreement Name:
Lone Mountain Canyon

8. Well Name and Number:
1-33

9. API Well Number:
43-037-30908

10. Field and Pool, or Wildcat:
Lone Mountain Canyon

1. Type of Well: OIL GAS OTHER: _____

2. Name of Operator:
APA DEVELOPMENT

3. Address and Telephone Number: _____

4. Location of Well
Footages: Sec. 1, T42S R24E
1623' FSL 1959' FEL
QQ, Sec., T., R., M.: _____

County: San Juan County
State: Utah

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT
(Submit in Duplicate)

Abandonment
 Casing Repair
 Change of Plans
 Conversion to Injection
 Fracture Treat
 Multiple Completion
 Other Put on Production

New Construction
 Pull or Alter Casing
 Recompletion
 Shoot or Acidize
 Vent or Flare
 Water Shut-Off

Approximate date work will start Late Spring or Early
summer

SUBSEQUENT REPORT
(Submit Original Form Only)

Abandonment
 Casing Repair
 Change of Plans
 Conversion to Injection
 Fracture Treat
 Other _____

New Construction
 Pull or Alter Casing
 Shoot or Acidize
 Vent or Flare
 Water Shut-Off

Date of work completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.
* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

ANNUAL STATUS REPORT

Put on production late spring of early summer.

Drill cement and plug at 5320'. Clean out hole to PBTD at 5470' and put well on production.

13. Name & Signature: V. Joyce Mari Joyce Mari Title: Secretary Date: 1-6-93

(This space for State use only)

MAY 16 1994

A.P.A. DEVELOPMENT, INC. /N 7185
P.O. Box 215
Cortez, CO 81321-0215

May 12, 1994

Utah Oil, Gas and Mining
355 West North Temple St., Suite 350
Salt Lake City, Utah 84180-1203

Gentlemen:

Enclosed please find copies of "Designation of Operator" to verify that ownership and operation of NOO-C-14-20-5117 and NOO-C-14-20-5119 have been changed from A.P.A. Development, Inc. to Colorado Pica Petroleum Corporation.

Yours truly,

A.P.A. DEVELOPMENT, INC.



Patrick B. Woosley, President

PBW;jm

Enclosures as stated

RECEIVED
BLM

DESIGNATION OF OPERATOR

93 DEC 15 AM

070 FARMINGTON

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE: Santa Fe, New Mexico
SERIAL No.: N00-C-14-20-5119

and hereby designates

NAME: Colorado PICA Petroleum Corporation
ADDRESS: 2002 Rolling Road, Cortez, CO 81321

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

Legal description is contained on Exhibit A attached hereto and incorporated herein by this reference.

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the supervisor of any change in the designated operator.



(Signature of lessee)
Patrick B. Woosley, President
A.P.A. Development, Inc.

P.O. Box 215, Cortez, CO 81321

(Address)

December 1, 1993

(Date)

U.S. GOVERNMENT PRINTING OFFICE: 1964-O-726-354

9 10 - 5 36

APR 23 1994

Pursuant to Secretarial
Redelegation Order 209 DM
8, Secretary's Order No.
3150, as amended, and 10 BIAM
Bulletin 13, as amended.

ACTING Navajo Area Director

DEC 23 1993

RES-Minerals Section

DESIGNATION OF OPERATOR

RECEIVED
BLM
98 DEC 15 7:11:06

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE: Santa Fe, New Mexico
SERIAL NO.: NOO-C-14-20-5119

and hereby designates

NAME: Colorado PICA Petroleum Corporation
ADDRESS: 2002 Rolling Road, Cortez, CO 81321

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

Legal description is contained on Exhibit A attached hereto and incorporated herein by this reference.

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the supervisor of any change in the designated operator.



(Signature of lessee)
Patrick B. Woosley, President
A.P.A. Development, Inc.

P.O. Box 215, Cortez, CO 81321

(Address)

December 1, 1993

(Date)

U.S. GOVERNMENT PRINTING OFFICE: 1964-O-726-354

9 10 - 536

Pursuant to Secretarial
Redelegation Order 209 DM 8,
Secretary's Order No. 3150,
as amended, and 10 BIAM
Bulletin 13, as amended.


Navajo Area Director

EXHIBIT A

Lands located in San Juan County, Utah

Township 42 South, Range 24 East, S.L.M.

Section 1: All

San Juan County, Utah

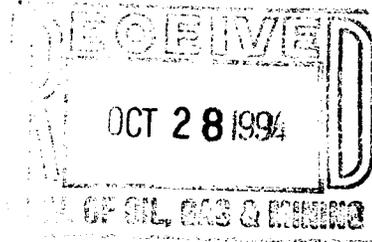
43-037-31083 / 1-11 NWNW

43-037-30908 / 1-33 NWSE

43-037-30847 / 1-44 SESE

COLORADO PICA PETROLEUM CORPORATION

2002 Rolling Road Cortez, Colorado 81321 (303) 565-4993



October 26, 1994

Att: Lisha Cordova
State of Utah
Division of Oil, Gas and Mining
355 West North Temple St., Suite 350
Salt Lake City, Utah 84180-1203

Dear Ms. Cordova,

Enclosed please find copies of the Navajo Nation assignment of Mining Lease for Lone Mountain Lease No. NOO-C-14-20-5117 and Lease No. NOO-C-14-20-5119.

Enclosed also are approved copies of Designation of Operator from the BLM for the above named leases.

We have not received BIA forms as they have written that they have a backlog.

I hope this will enable you to send to me the report forms 10 and 11 for monthly oil and gas production and disposition reports.

Yours truly,

A handwritten signature in cursive script that reads "V. Joyce Mari".

V. Joyce Mari

Enclosures as stated

THE NAVAJO NATION

MINERALS DEPARTMENT
DIVISION OF NATURAL RESOURCES

OCT 28 1994

ASSIGNMENT OF MINING LEASE

PART I

Lease No. NOO-C-14-20-5119

1. Original Lessee: Raymond T. Duncan
2. Date of Approval of Original Lease: March 5, 1973
3. Royalty Rate: 16.67%
4. Current Lease Description: T42S-R24E, S.L.M.
Section 1: All
San Juan County, Utah
Containing 640.00 acres, more or less.
5. Description of Land Being Assigned: T42S-R24E, S.L.M.
Section 1: All
San Juan County, Utah
Containing 640.00 acres, more or less
6. Assignor: A.P.A. Development, Inc.
7. Assignee: Colorado Pica Petroleum Corporation
8. Portion of Rights/Title Under Transfer: 50% operating rights from surface down to stratigraphic equivalent of 5,526', which is all of Assignor's interest.
9. Reserved Overriding Royalties: 3.33%
10. Previous Assignments and Portion of rights/title transferred:
 - (1) Assignment of a 2% of 8/8ths overriding royalty from Raymond T. Duncan to D-T Company dated 2/9/83.
 - (2) Assignment of a 1.33% of 8/8ths overriding royalty from Raymond T. Duncan to Raymond T. Duncan dated 2/9/83.
 - (3) Assignment of a 30% interest from Raymond T. Duncan to Vincent J. Duncan dated 2/10/83. Approved on 3/31/88.

If there have been more than three (3) previous assignments, please use continuation form(s).

The assignee shall furnish to the lessor (The Navajo Nation, c/o the Minerals Department, P.O. Box 146, Window Rock, AZ 86515), all copies of all reports filed with the Minerals Management Service and the Bureau of Land Management subsequent to federal laws and regulations, when filed. The assignee shall furnish also all oil and gas run tickets, copies of drillstem tests, pressure tests, core analyses, seismic data and any other information required by the Minerals Department for this lease.

Colorado Pica Petroleum Corporation

July 27, 1994

Date

Raymond T. Duncan
Assignee's Signature

President's Office - Approval

This assignment has been reviewed by the appropriate Departments of the Navajo Nation and is hereby approved.

SEP 28 1994

Date

[Signature]
President
The Navajo Nation

CONTINUATION SHEET

Lease No. NOO-C-14-20-5119

(4) Assignment of a 25% interest from Raymond T. Duncan to J. Walter Duncan, Jr. dated 2/10/83. Approved on 3/31/88.

(5) Assignment of a 22.5% operating rights from surface down to the stratigraphic equivalent of 5,526' from Raymond T. Duncan to the Superior Oil Company dated 2/11/83. Approved on 3/30/88.

(6) Assignment of a 15% operating rights from surface down to the stratigraphic equivalent of 5,526' from Vincent J. Duncan to the Superior Oil Company dated 2/11/83. Approved on 3/30/88.

(7) Assignment of a 12.5% operating rights from surface down to the stratigraphic equivalent of 5,526' from J. Walter Duncan, Jr. to the Superior Oil Company dated 2/11/83. Approved on 3/30/88.

(8) Superior Oil Co. merged into Mobil Oil Company.

(9) Assignment of 50% operating rights from surface down to the stratigraphic equivalent of 5526' from Mobil Exploration and Producing N.A. Inc., Navajo Nation approved on January 19, 1990. BIA approval pending.

() _____

() _____

() _____

() _____

() _____

() _____

() _____

() _____

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing:

1- VLC 7-PL
2-LWP 8-SJ
3-DTS 9-FILE
4-VLC
5-RJF
6-LWP

Attach all documentation received by the division regarding this change.
 Initial each listed item when completed. Write N/A if item is not applicable.

- Change of Operator (well sold) Designation of Agent
 Designation of Operator Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 4-25-94)

TO (new operator)	<u>COLORADO PICA PETRO. CORP.</u>	FROM (former operator)	<u>APA DEVELOPMENT INC</u>
(address)	<u>2002 ROLLING RD</u>	(address)	<u>PO BOX 215</u>
	<u>CORTEZ CO 81321</u>		<u>CORTEZ CO 81321</u>
	<u>V JOYCE MARI</u>		<u>PAT WOOSLEY, PRES.</u>
	phone (<u>303</u>) <u>565-4993</u>		phone (<u>303</u>) <u>565-2458</u>
	account no. <u>N 3500 (10-31-94)</u>		account no. <u>N 7185</u>

Well(s) (attach additional page if needed):

Name: <u>LONE MT CYN 36-34/DSCR</u>	API: <u>43-037-30864</u>	Entity: <u>5985</u>	Sec <u>36</u> Twp <u>41S</u> Rng <u>24E</u>	Lease Type: <u>INDIAN</u>
Name: <u>LONE MT CYN 1-11/DSCR</u>	API: <u>43-037-31083</u>	Entity: <u>6030</u>	Sec <u>1</u> Twp <u>42S</u> Rng <u>24E</u>	Lease Type: <u>INDIAN</u>
Name: <u>LONE MT CYN 1-33/TA</u>	API: <u>(43-037-30908)</u>	Entity: <u>11175</u>	Sec <u>1</u> Twp <u>42S</u> Rng <u>24E</u>	Lease Type: <u>INDIAN</u>
Name: <u>LONE MT CYN 1-44/DSCR</u>	API: <u>43-037-30847</u>	Entity: <u>6030</u>	Sec <u>1</u> Twp <u>42S</u> Rng <u>24E</u>	Lease Type: <u>INDIAN</u>
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____

OPERATOR CHANGE DOCUMENTATION

- Sec 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). *(Rec'd 5-16-94)*
- Sec 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). *(Rec'd 10-28-94)*
- Sec 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes)/no ____ If yes, show company file number: #138522 (E4.8.25.89)
- Sec 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of **Federal and Indian** well operator changes should take place prior to completion of steps 5 through 9 below.
- LWP 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. *10-31-94*
- Sec 6. Cardex file has been updated for each well listed above. *10-31-94*
- LWP 7. Well file labels have been updated for each well listed above. *11-1-94*
- Sec 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. *(10-31-94)*
- Sec 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only)

1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
2. A copy of this form has been placed in the new and former operators' bond files.
3. The former operator has requested a release of liability from their bond (yes/no) . Today's date 19 . If yes, division response was made by letter dated 19 .

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

1. (Rule R615-2-10) The former operator/lessee of any **fee lease** well listed above has been notified by letter dated 19 , of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
2. Copies of documents have been sent to State Lands for changes involving State leases.

FILMING

1. All attachments to this form have been microfilmed. Date: November 4 1999.

FILING

1. Copies of all attachments to this form have been filed in each well file.
2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.
NOO-C-14-20-5119 (WC)

6. If Indian, Allottee or Tribe Name
Navajo

7. If Unit or CA, Agreement Designation

8. Well Name and No.
Lone Mountain Canyon 1-33

9. API Well No.
1-33 43-037-30908

10. Field and Pool, or Exploratory Area
Lone Mountain Canyon

11. County or Parish, State
San Juan County, Utah

1. Type of Well
 Oil Well Gas Well Other Re: NOO-C 14-20-5119 (WC) 3162.3-4 (7100)

2. Name of Operator
Colorado Pica Petroleum Corporation

3. Address and Telephone No.
2002 Rolling Road, Cortez, CO 81321 970-565-4993

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1675' FNL & 1850' FEL sec. 1, T. 42 S., R. 24 E.
1623 FSL 1959 FEL

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- Notice of Intent
- Subsequent Report
- Final Abandonment Notice

TYPE OF ACTION

- Abandonment
- Recompletion
- Plugging Back
- Casing Repair
- Altering Casing
- Other _____
- Change of Plans
- New Construction
- Non-Routine Fracturing
- Water Shut-Off
- Conversion to Injection
- Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Per attached Plug and Abandonment procedure (attached) as soon as rig can be obtained.

COPY SENT TO OPERATOR
Date: 12-13-99
initials: CHD

Accepted by the RECEIVED
Utah Division of Oil, Gas and Mining DEC 10 1999
FOR RECORD ONLY DIVISION OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed Raymond C. Mari
(This space for Federal or State office use)

Title President

Date 12/7/99

Approved by _____
Conditions of approval, if any:

Title _____

Federal Approval of this
Action is Necessary

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

*See Instruction on Reverse Side

COLORADO PICA PETROLEUM CORPORATION

2002 Rolling Road Cortez, Colorado 81321 970-565-4993

December 7, 1999

RECEIVED

DEC 10 1999

DIVISION OF OIL, GAS & MINING

Att: James M. Carter
Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, Utah 84114

Dear
Sir:

Enclosed please find letter from the BLM and Sundry notice to the BLM regarding plugging of Lone Mountain Canyon 1-33

Also enclosed a copy of A-Plus Well Service Plug and Abandonment Procedure dated 10-9-96.

Yours truly,


Raymond C. Mari, President



United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Farmington Field Office
1235 La Plata Highway, Suite A
Farmington, New Mexico 87401

RECEIVED

DEC 10 1999

DIVISION OF OIL, GAS & MINING

IN REPLY REFER TO:

NOV 16 1999

NOO-C-14-20-5119 (WC)
3162.3-4 (7100)

Mr. Raymond C. Mari
Colorado Pica Petroleum Corp.
2002 Rolling Road
Cortez, CO 81321

Dear Mr. Mari

Reference is made to your well No. 1-33 Lone Mountain Canyon located 1675' FNL & 1850' FEL sec. 1, T. 42 S., R. 24 E., San Juan County, Utah, Lease NOO-C-14-20-5119. Also referenced is your Sundry Notice dated May 11, 1991, which requested an extension for another year. You were granted until October 1, 1999 to complete the plugging of this well. If the well has been plugged, you are required to submit a subsequent report. If the well has not been plugged, you are required to complete the work and file a subsequent report by January 15, 2000.

Failure to comply within the time above may result in an assessment in accordance with 43 CFR 3163.1.

Under provisions of 43 CFR 3165.3, you may request an Administrative Review of the orders described above. Such request, including all supporting documents, must be filed in writing within 20 business days of receipt of this notice and must be filed with the State Director, Bureau of Land Management, P. O. Box 27115, Santa Fe, New Mexico 87502-0115. Such requests shall not result in a suspension of the order(s) unless the reviewing official so determines. Procedures governing appeals from instructions, orders or decisions are contained in 43 CFR 3165.4 and 43 CFR 4.400 et seq.

If you have any questions please contact Stephen Mason with this office at (505) 599-6364.

Sincerely,

Joe Hewitt

Joe Hewitt
Acting Team Leader; Petroleum Management Team

cc:
BIA, Window Rock
Navajo Nation Minerals Dept.

PLUG AND ABANDONMENT PROCEDURE

10-9-96

Lone Mountain Canyon #1-33
Desert Creek
SE, Sec. 1, T42S, R24E
San Juan County, Utah

Note: All cement volumes use 100% excess outside pipe and 50' excess inside pipe. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures.

1. Install and test rig anchors. Prepare blow pit. Comply to all BLM and PICA safety rules and regulations.
2. MOL and RU daylight pulling unit. Conduct safety meeting for all personnel on location. NU relief line to flow back tank. Blow well down; kill with water as necessary. ND wellhead and NU BOP and stripping head; test BOP.
3. PU 2-3/8" tubing work string; RIH and tag cement at 5236' or as deep as possible. POH to 5198'.
4. Plug #1 (Ismay top, 5198' - 5098'): Load casing with water and pressure test casing to 500#. Mix 17 sxs Class B cement and spot a balanced plug inside casing to cover Ismay top. POH to 4360'.
5. Plug #2 (Hermosa top, 4360' - 4260'): Mix 17 sxs Class B cement and spot balanced plug inside casing to cover and Hermosa top. POH with tubing.
6. Plug #3 (9-5/8" shoe and Chinle top, ¹³⁶⁸1425' - ¹²²⁸1288'): Perforate 3 or 4 squeeze holes at ¹³⁶⁸1425'. Establish rate into squeeze holes if casing tested. PU 5-1/2" cement retainer and RIH; set at 1318'. Establish rate into squeeze holes. Mix and pump ⁶⁹69 sxs Class B cement, squeeze ⁴⁶46 sxs cement out 5-1/2" casing from ¹⁴²⁵1425' to ¹²⁶⁶1266' and leave ²³23 sxs cement inside casing to cover Chinle top. POH and LD tubing and setting tool.
7. Plug #4 (Surface): Perforate 3 or 4 squeeze holes at 164'. Establish circulation out bradenhead. Mix and pump approximately 54 sxs Class B cement, circulate good cement out bradenhead valve. Shut in well and WOC.
8. ND BOP and cut off well head below surface casing flange. Install P&A marker with cement to comply with regulations. RD, MOL and cut off anchors. Restore location per BLM stipulations.

RECEIVED

DEC 10 1999

DIVISION OF OIL, GAS & MINING

Lone Mountain Canyon #1-33

Current

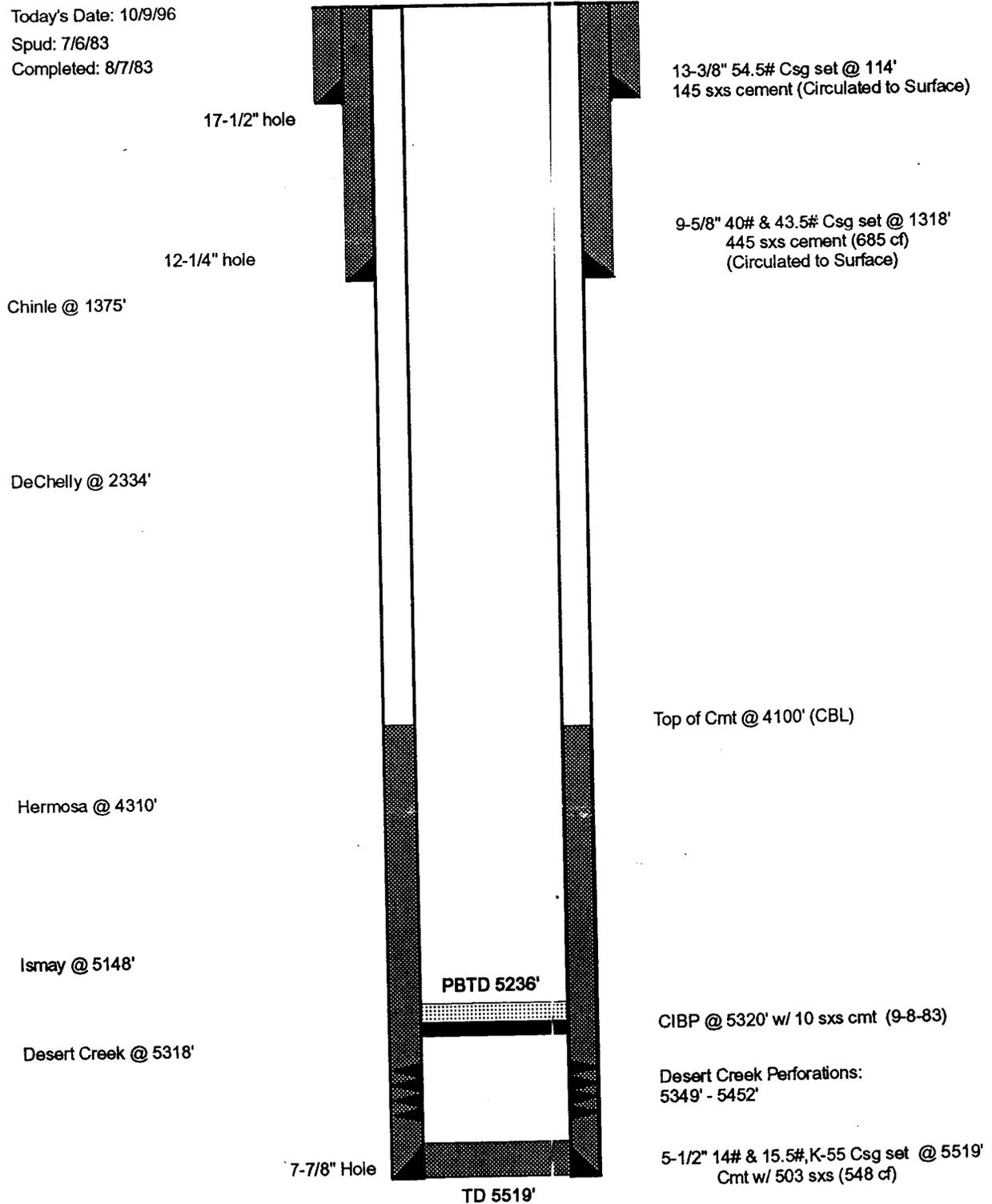
Desert Creek

SE Section 1, T-42-S, R-24-E, San Juan County, UT

Today's Date: 10/9/96

Spud: 7/6/83

Completed: 8/7/83

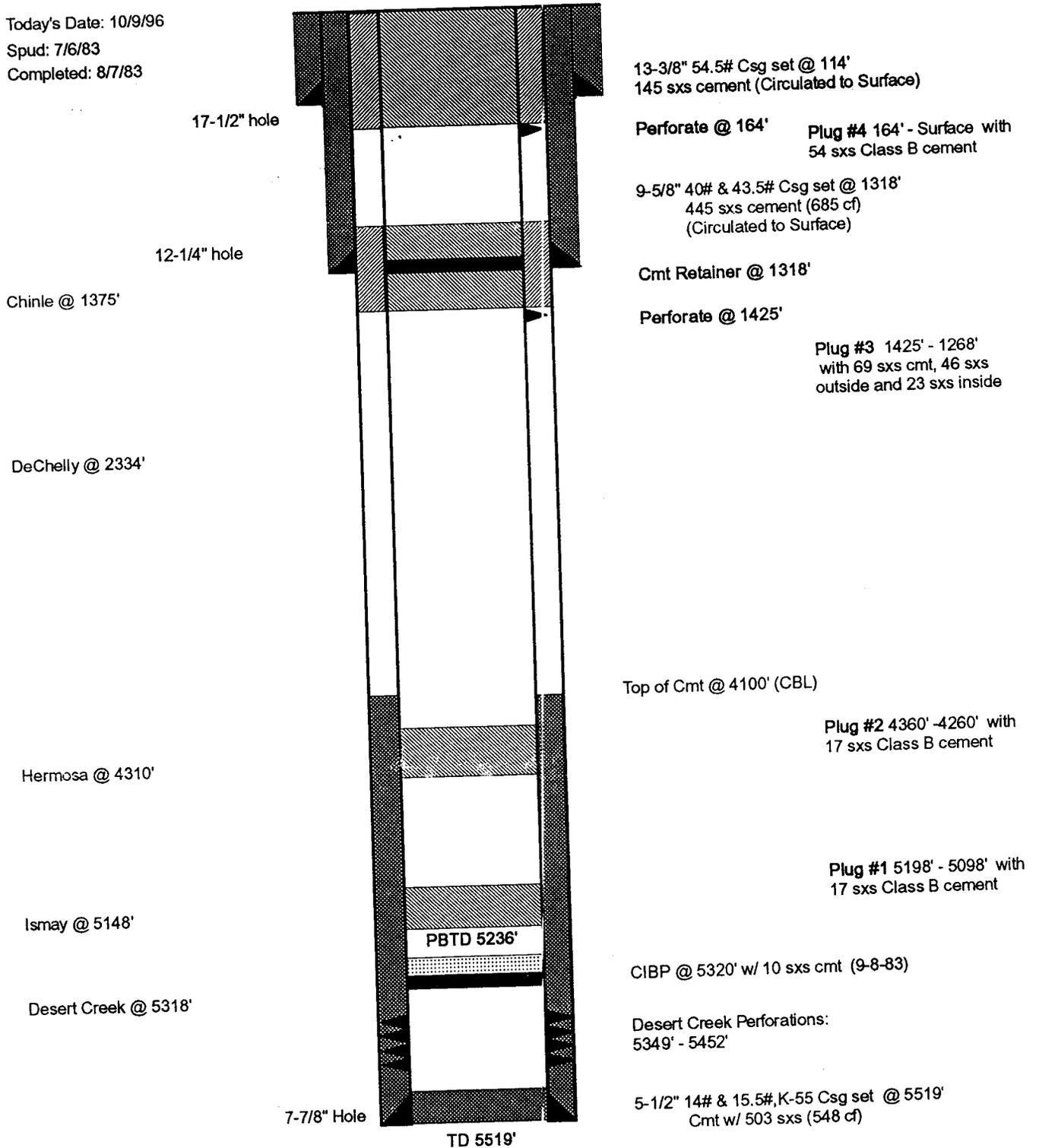


Lone Mountain Canyon #1-33

Desert Creek

SE Section 1, T-42-S, R-24-E, San Juan County, UT

Today's Date: 10/9/96
Spud: 7/6/83
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**GENERAL REQUIREMENTS FOR
PERMANENT ABANDONMENT OF WELLS ON FEDERAL AND INDIAN LEASES
FARMINGTON DISTRICT OFFICE**

1.0 The approved plugging plans may contain variances from the following minimum general requirements.

1.1 Modification of the approved plugging procedure is allowed only with the prior approval of the Farmington District office, *Branch of Drilling & Production*.

1.2 Requirements may be added to address specific well conditions.

2.0 Materials used must be accurately measured.

3.0 A tank or approved pit must be used for containment of any fluids from the wellbore during plugging operations and all unattended pits are to be fenced with woven wire. These pits will be fenced on three sides and once the rig leaves location, the fourth side will be fenced.

3.1 Pits are not to be used for disposal of any constituent(s) of concern.

4.0 All cement plugs are to be placed through a work string. Cement may be bull-headed down the casing with prior approval. Cement caps on top of bridge plugs or cement retainers may be placed by dump bailer.

4.1 The cement shall be as specified in the approved plugging plan.

4.2 All cement plugs placed inside casing shall have sufficient volume to fill a minimum of 100' of the casing, or *annular void(s) between casings*, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.

4.3 Surface plugs may be no less than 50' in length.

4.4 All cement plugs placed to fill annular void(s) between casing and the formation shall be of sufficient volume to fill a minimum of 100' of the annular space plus 100% excess, *calculated using the bit size, or 100' of annular capacity, determined from a caliper log*, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.

4.5 All cement plugs placed to fill an open hole shall be of sufficient volume to fill a minimum of 100' of hole, *as calculated from a caliper log*, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug. In the absence of a caliper log, an excess of 100% shall be required.

5.0 All cement plugs spotted across, or above, any exposed zone(s), when; the wellbore is not full of fluid or the fluid level will not remain static, and in the case of lost circulation or partial returns during cement placement, shall be tested by: (1) tagging with the work string, or: (2) for cased holes only; pressuring to a minimum surface pressure of 500 PSI, with no more than a 1% drop during a 15-minute period.

5.1 The top of any cement plug verified by tagging must be at or above the depth specified in the approved plan, without regard to any excess.

- 5.2 Testing will not be required for any cement plug that is mechanically contained by use of a bridge plug and/or cement retainer.
- 5.3 Any cement plug which is the only isolating medium, for a fresh water interval or a zone containing a prospectively valuable deposit of minerals, shall be tested by tagging.
- 6.0 All wells are to be controlled by means of a wellbore fluid that is to be of a weight and consistency necessary to stabilize the wellbore. Wellbore fluid shall be left in place as filler between all plugs.
- 6.1 Drilling mud may be used as the wellbore fluid in open hole plugging operations.
- 6.2 The wellbore fluid used in cased holes shall be of sufficient weight to balance known pore pressures in all exposed formations.
- 7.0 A blowout preventer and related equipment (BOPE) shall be installed and tested prior to working in a wellbore with any exposed zone(s); (1) that are over pressured, (2) where the pressures are unknown, or (3) known to contain H₂S.
- 8.0 Within 30 days after plugging work is completed, file a Sundry Notice, *Subsequent Report of Abandonment (Form 3160-5)*, five copies, with the District Manager, Bureau of Land Management, 1235 La Plata Highway, Farmington, NM 87401. The report should show the manner in which the plugging work was carried out, the extent, by depth(s), of cement plugs placed, and the size and location, by depth(s), of casing left in the well. Show date well was plugged.
- 9.0 All permanently abandoned wells are to be marked with a permanent monument as specified in 43 CFR 3162.6(d). Unless otherwise approved.

All of the above are minimum requirements. Failure to comply with the above conditions of approval may result in an assessment for noncompliance and/or a Shut-in Order being issued pursuant to 43 CFR 3163.1. You are further advised that any instructions, orders or decisions issued by the Bureau of Land Management are subject to administrative review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4 and 43 CFR 4.700.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

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Lone Mtn. Canyon 1-33

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	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other <i>PA-12-21-99/gm, CDD</i>
	<i>1-11-2000</i>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
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Plugging Complete

Raymond Mari says well was PIA'D Updttly as the way on the intent. (CDD-1-11-2000)

RECEIVED

JAN 07 2000

DIVISION OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed Raymond C. Mari Title President Date 1-3-2000

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
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